

**3M** Science.  
Applied to Life.™

If you can imagine it,  
you can do it.

Graphic Materials Product Catalog





**We've  
got you.**



**Work better, faster,  
more creatively with  
products that perform  
to your high standards.**
















# Fire up your reputation.

As a graphics manufacturer, customers come to you to bring their visions to life. 3M's Graphics & Signage product portfolio, empowers you to transform, elevate and energize every surface of their brand.

From car wraps that convert vehicles into attention-grabbing mobile advertising to wall graphics that create experiential environments, our solutions are packed with the features you need to help you and your customers get the attention you deserve.

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# Wow on wheels.

These 3M films have what it takes to make an impression on the move. Innovative design and installation features allow for fast and easy installs and looks that last. Whether you're creating custom graphics, messaging or colorful designs, all of these vehicles have one destination: greatness.



### 3M™ Wrap Film 2080-GC451 Gloss Silver Chrome

#### CAUTION

Before using chrome wrap, please ensure compliance with all applicable laws and regulations. Restrictions on chrome wraps may vary by jurisdiction. You accept responsibility for legal and regulatory compliance and for any liability arising from your use of chrome wrap.



Wrap Film 2080-GC451 Gloss Silver Chrome comes in 60" so you can wrap most vehicles without seams.



## Vehicles & Fleet



▲  
3M™ Controltac™ Graphic Film with Comply™ v3 Adhesive  
IJ180Cv3 and 3M™ Scotchcal™ Luster Overlaminate 8519



## Vehicles & Fleet

| Product   | Description  | Film                      | Key Overlamines  | Product Advantages  |
|---|--|---------------------------|--|---|
| <b>780mC-10R*</b>                                 | 3M™ Scotchlite™ Print Wrap Film 780mC-10R                                      | Retroreflective           | 8418G, 8518, 8519, 8548G, 8549L                                      | <ul style="list-style-type: none"> <li>• Robust properties enable conformability</li> <li>• Heat recovery minimizes bruising</li> <li>• Retroreflective at wide viewing angles</li> </ul>       |
| <b>SV480mC<br/>LX480mC</b>                        | 3M™ Envision™ Print Wrap Film SV480mC<br>3M™ Envision™ Print Wrap Film LX480mC | Opaque                    | 8548G, 8549L, 8550M  | All that IJ180mC offers and more, non-PVC, 150% stretch, excellent for installation in extreme temps, horizontal warranty, removable with heat  |
| <b>IJ180mC-10<br/>IJ180mC-114<br/>IJ180mC-120</b> | 3M™ Print Wrap Film IJ180mC-10,<br>IJ180mC-114, IJ180mC-120                    | Opaque/Clear/<br>Metallic | 8418G, 8518, 8519, 8520,<br>8548G, 8549L, 8550M,<br>8528, 8900, 8915 | Excellent for wraps, medium/low initial tack, slideability, air release and snap-up   |
| <b>IJ180mC-10UR</b>                               | 3M™ Print Wrap Film IJ180mC-10UR   | Opaque                    | 8418G, 8518, 8519, 8520,<br>8900                                     | Ultra-removable adhesive removes cleanly without heat or chemicals  |
| <b>IJ180mC-10LSE</b>                              | 3M™ Print Wrap Film IJ180mC-10LSE  | Opaque                    | 8418G, 8518, 8519, 8520,<br>8548G, 8549L, 8550M,<br>8528, 8900       | For substrates with Low Surface Energy, slideability, pressure activated and snap-up  |
| <b>IJ180mC-10SLS</b>                              | 3M™ Print Wrap Film IJ180mC-10SLS  | Opaque                    | 8418G, 8518, 8519, 8520,<br>8548G, 8549L, 8550M,<br>8528, 8900       | For substrates that are Stainless Steel, slideability, pressure activated and snap-up   |
| <b>IJ180Cv3</b>                                   | 3M™ Controltac™ Graphic Film with Comply™<br>v3 Adhesive IJ180Cv3              | Opaque                    | 8418G, 8518, 8519, 8520,<br>8548G, 8549L, 8550M,<br>8528, 8900, 8915 | Industry favorite for trailers and box trucks, slideability, air release and snap-up  |
| <b>IJ175Cv3</b>                                   | 3M™ Print Wrap Film IJ175Cv3   | Opaque                    | 8418G, 8518, 8519, 8520,<br>8548G, 8549L, 8550M,<br>8528, 8900, 8915 | Excellent for wraps, low initial tack, slideability, air release  |
| <b>IJ8150</b>                                     | 3M™ Scotchcal™ Clear View Graphic Film<br>IJ8150                               | Transparent               | 8418G, 8518, 8914  | <ul style="list-style-type: none"> <li>• Optical clarity with excellent printability in a durable and even conformable film</li> <li>• Print unique effects, even see-through images</li> </ul> |
| <b>8170-P50</b>                                   | 3M™ Window Film 8170-P50   | Perforated                | 8418G, 8518, 8914  | <ul style="list-style-type: none"> <li>• As a cast vinyl, offers excellent lifting resistance and durability</li> <li>• Offered with 50/50 perforation pattern</li> </ul>                       |
| <b>40C-10R<br/>40C-20R<br/>40C-114R</b>           | 3M™ Controltac™ Print Film 40C-10R,<br>40C-20R, 40C-114R                       | Opaque/Clear              | 8418G, 8518, 8519, 8520  | <ul style="list-style-type: none"> <li>• Go-to, multi-use film</li> <li>• For flat or simple curves</li> <li>• 7-year expected performance life</li> </ul>                                      |
| <b>48C-20R</b>                                    | 3M™ Envision™ Print Film 48C-20R   | Opaque                    | 8048G, 8050M   | <ul style="list-style-type: none"> <li>• Non-PVC with all the versatility of 40C</li> <li>• For flat or simple curves</li> <li>• Easy application and removal</li> </ul>                        |

## Solid-Color Films

|                  |  |                            |               |   |
|------------------|--|----------------------------|---------------|---|
| <b>1080/2080</b> | 3M™ Wrap Film Series 1080  | Solid-Color                | 8900          | <ul style="list-style-type: none"> <li>• Ready to use right out of the box — with or without graphic protection</li> <li>• Features slideable and repositionable pressure-activated adhesive with non-visible air release channels, removable</li> <li>• 2080 - added film protective layer and more conformable</li> </ul> |
| <b>180mC</b>     | 3M™ Controltac™ Graphic Film with Comply™<br>Adhesive Series 180mC | Solid-Color                | 8900          | Film series 180mC with micro Comply™ Adhesive has non-visible air release channels for fast and easy, bubble-free graphic installations   |
| <b>7725/7125</b> | 3M™ Scotchcal™ ElectroCut™ Graphic Film<br>Series 7725/7125        | Solid-Color<br>ElectroCut™ | 1920DR, 9740i | <ul style="list-style-type: none"> <li>• 2-mil premium films designed for electronic cutting and thermal transfer</li> <li>• 7725 moisture-resistant synthetic liner lays flat and won't split</li> <li>• Flat and flat with rivets</li> </ul>  |
| <b>SC50</b>      | 3M™ Scotchcal™ Graphic Film Series SC50                            | Solid-Color                | 1920DR, 9740i | <ul style="list-style-type: none"> <li>• 3-mil intermediate films designed for electronic cutting and thermal transfer</li> <li>• Excellent cutting and weeding and removable adhesive</li> <li>• For flat or simple curves</li> </ul>  |

# Raise your glass.

Transform windows into wins. With the simple placement of a window film, your customers can take advantage of this amazing real estate to enhance their image. From perforated films to transparent films to printable films, there's an abundance of options to let your talent shine through.



Edge sealing is required for all perforated window graphics in order to be warranted.

- ▶ 3M™ Scotchcal™ Clear View Graphic Film IJ8150
- ▶ 3M™ Scotchcal™ ElectroCut™ Graphic Film Series 7725
- ▶ 3M™ Scotchcal™ Translucent Graphic Film Series IJ3630





When installing on windows, always trim the film 1/8 - 1/4 inch (3 to 6 mm) away from all rubber gaskets and silicone sealer.



Windows & Glass



**COZILEE**  
**COFFEE**

▲ 3M™ Controltac™ Print Film 40C-114R

MONDAY - FRIDAY 6AM - 8PM  
SATURDAY 7AM - 8PM



## Windows & Glass

| Product                      | Description  | Film                    | Key Overlamines   | Product Advantages  |
|------------------------------|--|-------------------------|-------------------|---|
| <b>40C-114R</b>              | 3M™ Controltac™ Print Film 40C-114R                      | Clear                   | 8508, 8509, 8510M | <ul style="list-style-type: none"> <li>• Easy, dry-apply installation</li> <li>• Up to 7-year expected performance life</li> <li>• Removable film for easy updates</li> </ul>   |
| <b>IJ8150</b>                | 3M™ Scotchcal™ Clear View Graphic Film IJ8150            | Transparent             | 8518, 8914        | <ul style="list-style-type: none"> <li>• Optical clarity with excellent printability in a durable and even conformable film</li> <li>• Print unique effects, even see-through images</li> </ul>   |
| <b>8170-P50<br/>8170-P40</b> | 3M™ Window Film 8170-P50<br>3M™ Window Film 8170-P40     | Perforated              | 8518, 8914        | <ul style="list-style-type: none"> <li>• As a cast vinyl, offers excellent lifting resistance and durability</li> <li>• 50/50 perforation pattern with 8170-P50</li> <li>• 60/40 perforation pattern with 8170-P40</li> </ul>                           |
| <b>IJ61</b>                  | 3M™ Changeable Graphic Film IJ61                         | Clear                   | N/A               | <ul style="list-style-type: none"> <li>• First or second surface</li> <li>• Wet or dry application</li> <li>• Changeable adhesive for easy removal</li> </ul>   |
| <b>IJ67</b>                  | 3M™ Scotchcal™ Perforated Window Film IJ67               | Perforated              | 8518, 8914        | <ul style="list-style-type: none"> <li>• 60/40 perforation pattern</li> <li>• Removable adhesive for easy updates</li> <li>• For budget-minded, short-term applications</li> </ul>  |
| <b>7725/7125</b>             | 3M™ Scotchcal™ ElectroCut™ Graphic Film Series 7725/7125 | Solid-Color ElectroCut™ | N/A               | <ul style="list-style-type: none"> <li>• 2-mil premium films designed for electronic cutting and thermal transfer</li> <li>• 7725 moisture-resistant synthetic liner lays flat and won't split</li> <li>• Clear adhesive for two way viewing</li> </ul> |
| <b>SC50</b>                  | 3M™ Scotchcal™ Graphic Film Series SC50                  | Solid-Color             | N/A               | <ul style="list-style-type: none"> <li>• 3-mil intermediate films designed for electronic cutting and thermal transfer</li> <li>• Excellent cutting and weeding and removable adhesive</li> <li>• Clear adhesive for two way viewing</li> </ul>         |
| <b>Decorative Polyester</b>  | 3M™ Decorative Polyester Glass Finish                    | Transparent             | N/A               | <ul style="list-style-type: none"> <li>• Clear glass finish that can be used to create custom color and design with UV inkjet or UV screen printing</li> </ul>  |

## Buildings & Walls

# Make a scene.

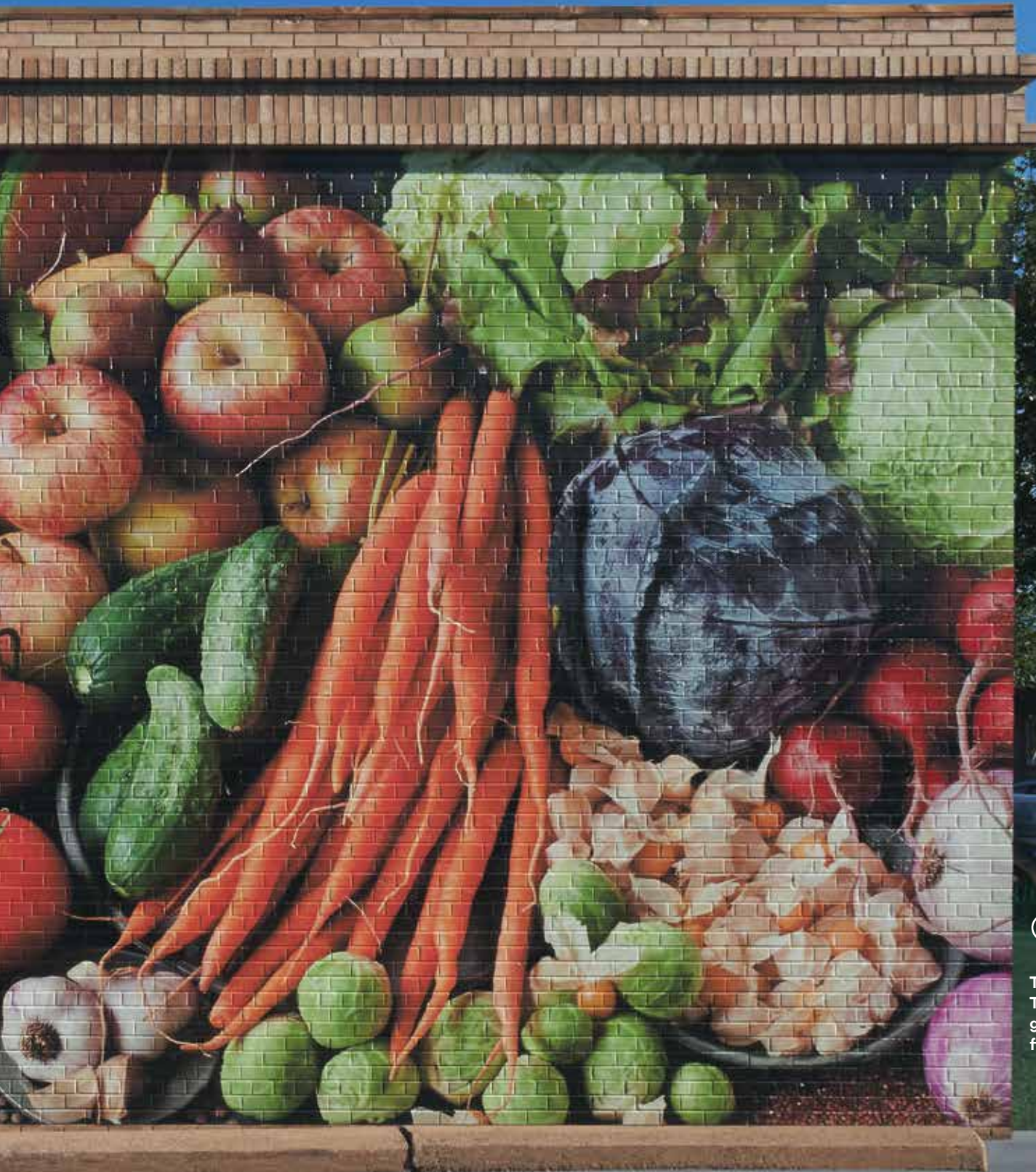
Buildings and walls are a huge branding opportunity. With their outstanding reliability, ease of use and creative latitude, 3M films give you the confidence to create stunning graphics on these surfaces regardless of texture, size or weather conditions. The world is officially your canvas.



Save on removal costs for long term displays by applying two layers of graphics (four total layers) at once.

▲  
3M™ Envision™ Print Wrap Film LX480mC and  
3M™ Envision™ Luster Wrap Overlaminates 8549L





Test your walls. The 3M™ Adhesion Test Kit for SMOOTH substrates helps graphic manufacturers identify the best film to use on walls in about 20 minutes.



# Buildings & Walls



▲ 3M™ Print Wrap Film IJ180mC-10



## Buildings & Walls

| Product   | Description  | Film                        | Key Overlaminate                                | Product Advantages   |
|---|--|-----------------------------|---|--|
| <b>780mC-10R*</b>                                 | 3M™ Scotchlite™ Print Wrap Film 780mC-10R                                      | Retroreflective             | 8418G, 8518, 8519, 8520<br>8548G, 8549L         | Robust, reflective film conforms to textured walls   |
| <b>SV480mC<br/>LX480mC</b>                        | 3M™ Envision™ Print Wrap Film SV480mC<br>3M™ Envision™ Print Wrap Film LX480mC | Opaque                      | 8520, 8549L (textured walls), 8550M, 8600, 8915 | All that IJ180mC offers and more, non-PVC, 150% stretch, excellent for textured surfaces like brick or stucco, and smooth walls. Removable with heat.  |
| <b>IJ180mC-10<br/>IJ180mC-114<br/>IJ180mC-120</b> | 3M™ Print Wrap Film IJ180mC-10, IJ180mC-114, IJ180mC-120                       | Opaque<br>Clear<br>Metallic | 8418G, 8519, 8520, 8549L, 8550M, 8600, 8915     | For smooth walls, reliable adhesion, durability, slideability, air release and snap-up   |
| <b>IJ180mC-10UR</b>                               | 3M™ Print Wrap Film IJ180mC-10UR   | Opaque                      | 8518, 8519, 8520, 8900                          | Ultra-removable adhesive removes cleanly without heat or chemicals   |
| <b>180mC</b>                                      | 3M™ Controltac™ Graphic Film with Comply™ Adhesive Series 180mC                | Solid-Color                 | 8900  | Film series 180mC with micro Comply™ Adhesive Technology has non-visible air release channels for fast and easy, bubble-free graphic installations   |
| <b>40C-10R<br/>40C-20R<br/>40C-114R</b>           | 3M™ Controltac™ Print Film 40C-10R, 40C-20R, 40C-114R                          | Opaque/Clear                | 8508, 8509, 8510M                               | <ul style="list-style-type: none"> <li>• Go-to, multi-use film for flat/simple curves</li> <li>• Excellent printability</li> <li>• 7-year expected performance life</li> </ul>   |
| <b>48C-20R</b>                                    | 3M™ Envision™ Print Film 48C-20R   | Opaque                      | 8048G, 8050M                                    | <ul style="list-style-type: none"> <li>• Non-PVC with all the versatility of 40C</li> <li>• For flat or simple curves</li> <li>• Easy application and removal</li> </ul>   |
| <b>IJ35C</b>                                      | 3M™ Scotchcal™ Graphic Film with Comply™ Adhesive Series IJ35C                 | Opaque                      | 8508, 8509, 8510M                               | For budget-priced applications where removability isn't a concern  |
| <b>IJ39-20</b>                                    | 3M™ Scotchcal™ High Tack Graphic Film IJ39-20                                  | Opaque                      | 8508, 8509, 8510M                               | <ul style="list-style-type: none"> <li>• High-tack adhesive for hard-to-stick surfaces</li> <li>• Sticks to many low-surface energy plastics</li> </ul>  |
| <b>7725/7125</b>                                  | 3M™ Scotchcal™ ElectroCut™ Graphic Film Series 7725/7125                       | Solid-Color<br>ElectroCut™  | 1920DR, 9740i                                   | <ul style="list-style-type: none"> <li>• 2-mil premium films designed for electronic cutting and thermal transfer</li> <li>• 7725 moisture-resistant synthetic liner lays flat and won't split</li> <li>• Flat and flat with rivets</li> </ul> |
| <b>SC50</b>                                       | 3M™ Scotchcal™ Graphic Film Series SC50  | Solid-Color                 | 1920DR, 9740i                                   | <ul style="list-style-type: none"> <li>• 3-mil intermediate films designed for electronic cutting and thermal transfer</li> <li>• Excellent cutting and weeding and removable adhesive</li> <li>• For flat or simple curves</li> </ul>         |

\* This product is not yet intended for plotter or die-cut applications.

## Floors & Sidewalks

# Stop them in their tracks.

From sales messages to play spaces, our printable films give you the power to create floors and sidewalks that knock them off their feet. Each film is engineered for easy installation and hard-wearing durability, so you can always create floors they'll look up to.

▶  
3M™ Controltac™ Print Film 40C-20R and  
3M™ Scotchcal™ Luster Overlamine 3645

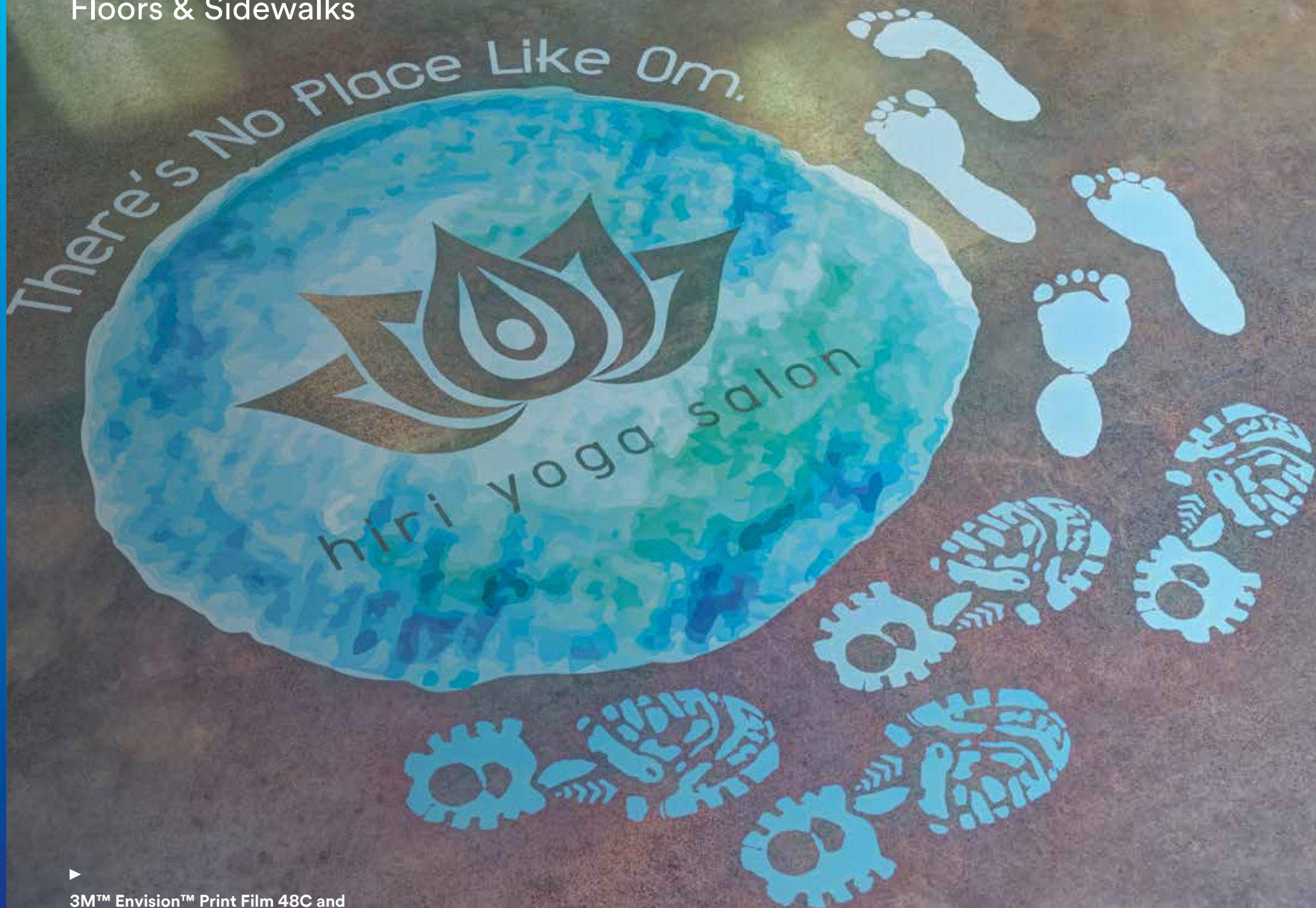




Recommended overlaminates meet UL 410 Slip Resistance of Floor Surface Materials.



## Floors & Sidewalks



▶ 3M™ Envision™ Print Film 48C and  
3M™ Envision™ Matte Overlamine 8050M



## Floors

| Product                                 | Description   | Film         | Key Overlaminates | Product Advantages  |
|---|---|--------------|-------------------|---|
| <b>40C-10R<br/>40C-20R<br/>40C-114R</b> | 3M™ Controltac™ Print Film 40C-10R, 40C-20R, 40C-114R | Opaque/Clear | 3645, 8509        | <ul style="list-style-type: none"> <li>• Indoor, short-term promotional programs</li> <li>• Removable adhesive for easy updates</li> <li>• Can be used for other applications</li> </ul>  |
| <b>48C-20R</b>                          | 3M™ Envision™ Print Film 48C-20R                      | Opaque       | 3645, 8050M       | <ul style="list-style-type: none"> <li>• Non-PVC film with removable adhesive</li> <li>• Indoor, short-term promotional programs</li> <li>• Can be used for other applications</li> </ul> |

## Sidewalks

| Product        | Description                         | Film   | Key Overlaminates | Product Advantages  |
|----------------|-------------------------------------|--------|-------------------|---|
| <b>3662-10</b> | 3M™ Scotchcal™ Graphic Film 3662-10 | Opaque | 3647              | <ul style="list-style-type: none"> <li>• For exterior sidewalk applications</li> <li>• Excellent hiding power</li> <li>• Screen print only</li> </ul> |



▶ 3M™ Controltac™ Print Film 40C and 3M™ Scotchcal™ Luster Overlaminates 8509



## Backlit Signs

# Go with the glow.

Help your customers' brands shine with 3M's backlit sign translucent and inkjet printable films, flexible substrates, light management films and overlaminates. Choose from an expanded line of translucent film colors that will help you fill even more customer needs and ensure global brand consistency.

- ▶ 3M™ Envision™ Flexible Substrate FS-1
- 3M™ Envision™ Translucent Film Series 3730
- 3M™ Scotchcal™ Overlaminates 3658G/3660M







Did you know? 3M offers more than 100 standard translucent film colors – as well as custom color capabilities. Our color selections were determined after extensive research and market insight, and are consistent with emerging trends in design and corporate identity.

# Backlit Signs



▶ 3M™ Dual-Color Film 3635



## Backlit Signs

| Product    | Description   | Film        | Key Overlamines | Product Advantages  |
|------------|---|-------------|-----------------|---|
| P3         | 3M™ Panagraphics™ III Wide Width Flexible Substrate | Translucent | 3658G, 3660M    | <ul style="list-style-type: none"> <li>• Up to 9 years of outdoor durability — backed by the 3M™ MCS™ Warranty</li> <li>• For inkjet direct printing, film and cut film decoration</li> <li>• Wide width, splice free for seamless backlit signs</li> </ul>                                 |
| 3630       | 3M™ Scotchcal™ Translucent Graphic Film Series 3630 | Translucent | 3658G, 3660M    | <ul style="list-style-type: none"> <li>• Up to 9 years of outdoor durability — backed by the 3M™ MCS™ Warranty</li> <li>• Designed for fluorescent lighting applications</li> <li>• Available in standard colors (many with PANTONE® references) and custom colors</li> </ul>               |
| IJ3630-20  | 3M™ Scotchcal™ Translucent Graphic Film IJ3630-20   | Translucent | 3658G, 3660M    | <ul style="list-style-type: none"> <li>• Matte surface finish eliminates glare and provides uniform color in reflected and transmitted light</li> <li>• Solvent, UV and latex inkjet printable</li> <li>• Up to 6 years of outdoor durability — backed by the 3M™ MCS™ Warranty</li> </ul>  |
| IJ3650-114 | 3M™ Scotchcal™ Graphic Film Series IJ3650-114       | Translucent | 3658G, 3660M    | <ul style="list-style-type: none"> <li>• Up to 6 years of outdoor durability — backed by the 3M™ MCS™ Warranty</li> <li>• Luster surface finish eliminates glare and provides uniform color in reflected and transmitted light</li> <li>• Solvent, UV and latex inkjet printable</li> </ul> |
| FS-1       | 3M™ Envision™ Flexible Substrate FS-1               | Translucent | 3658G, 3660M    | <ul style="list-style-type: none"> <li>• Designed for use with LED light sources</li> <li>• For inkjet direct printing, film and cut film decoration</li> <li>• Up to 9 years of outdoor durability — backed by the 3M™ MCS™ Warranty</li> </ul>  |
| 3730       | 3M™ Envision™ Translucent Film Series 3730          | Translucent | 3658G, 3660M    | <ul style="list-style-type: none"> <li>• Designed for use with LED light sources</li> <li>• Available in standard colors (many with PANTONE® references) and custom colors</li> <li>• Up to 9 years of outdoor durability — backed by the 3M™ MCS™ Warranty</li> </ul>                      |
| IJ3730     | 3M™ Envision™ Translucent Film IJ3730               | Translucent | 3658G, 3660M    | <ul style="list-style-type: none"> <li>• Up to 6 years of outdoor durability — backed by the 3M™ MCS™ Warranty</li> <li>• Solvent, UV and latex inkjet printable</li> <li>• Designed for use with LED light sources</li> </ul>  |

# All signs point to success.

Windows, walls, floors, signs, vehicles and more. Our versatile films can pretty much cover it all. Their performance features and adhesion qualities offer a world of marketing opportunities almost anywhere you look. If a customer can dream it, you're now prepared to make it happen.

▶  
3M™ Controltac™ Print Film 40C





# OneTen CYCLES



Ultra-removable films mean little to no adhesive is left behind on most surfaces, allowing the customer to remove them easily.



# Signs & Displays



▶ 3M™ Controltac™ Graphic Film with Comply™  
v3 Adhesive IJ180Cv3 and 3M™ Scotchcal™  
Matte Overlaminate 8520



## Signs & Displays

| Product   | Description   | Film                        | Key Overlaminates               | Product Advantages   |
|---|---|-----------------------------|---------------------------------|--|
| <b>40C-10R<br/>40C-20R<br/>40C-114R</b>           | 3M™ Controltac™ Print Film 40C-10R, 40C-20R, 40C-114R                   | Opaque/Clear                | 8508, 8509, 8510M               | <ul style="list-style-type: none"> <li>• Go-to, multi-use film for flat/simple curves</li> <li>• Excellent printability</li> <li>• 7-year expected performance life</li> </ul>   |
| <b>48C-20R</b>                                    | 3M™ Envision™ Print Film 48C-20R  | Opaque                      | 8048G, 8050M                    | <ul style="list-style-type: none"> <li>• Non-PVC with all the versatility of 40C</li> <li>• For flat or simple curves</li> <li>• Easy application and removal</li> </ul>   |
| <b>IJ35C</b>                                      | 3M™ Scotchcal™ Graphic Film with Comply™ Adhesive IJ35C                 | Opaque                      | 8508, 8509, 8510M               | <ul style="list-style-type: none"> <li>• Air release channels for easy, bubble-free installations</li> <li>• Gray adhesive for hiding power, making it easy to cover outdated promotions</li> <li>• Budget-friendly price</li> </ul> |
| <b>IJ180mC-10<br/>IJ180mC-114<br/>IJ180mC-120</b> | 3M™ Print Wrap Film IJ180mC-10, IJ180mC-114, IJ180mC-120                | Opaque<br>Clear<br>Metallic | 8519, 8520, 8549L, 8550M, 8915  | For general signs, reliable adhesion, durability, slideability, air release and snap-up  |
| <b>IJ680CR</b>                                    | 3M™ Scotchlite™ Removable Reflective Film with Comply™ Adhesive IJ680CR | Reflective                  | 8418G, 8518, 8519, 8548G, 8549L | For signs that are seen during the day and are reflective at night   |
| <b>IJ5100R</b>                                    | 3M™ Scotchlite™ Reflective Graphic Film 5100R/IJ5100R                   | Reflective                  | 8518, 8519                      | For signs that are seen during the day and are reflective at night   |

## Solid-Color Films

|                  |   |                            |      |  |
|------------------|---|----------------------------|------|--|
| <b>180mC</b>     | 3M™ Controltac™ Graphic Film with Comply™ Adhesive Series 180mC | Solid-Color                | 8900 | Film series 180mC with micro Comply™ Adhesive Technology has non-visible air release channels for fast and easy, bubble-free graphic installations   |
| <b>7725/7125</b> | 3M™ Scotchcal™ ElectroCut™ Graphic Film Series 7725/7125        | Solid-Color<br>ElectroCut™ | N/A  | <ul style="list-style-type: none"> <li>• 2-mil premium films designed for electronic cutting and thermal transfer</li> <li>• 7725 moisture-resistant synthetic liner lays flat and won't split</li> <li>• For flat or simple curves</li> </ul> |
| <b>SC50</b>      | 3M™ Scotchcal™ Graphic Film Series SC50                         | Solid-Color                | N/A  | <ul style="list-style-type: none"> <li>• 3-mil intermediate films designed for electronic cutting and thermal transfer</li> <li>• Excellent cutting and weeding and removable adhesive</li> <li>• For flat or simple curves</li> </ul>         |

## Key Overlaminates

# Come out on top.

Add a little flair to your wrap films or a lot of protection, with our selection of overlaminates. Available in a variety of finishes, our overlaminates can add textured finish to wall wraps, layer special effects on car wraps, provide lasting protection to signs and more.



▶ **3M™ Print Wrap Film with 3M™ Décor Overlamine 8600M-301 Riverbed**



Take a deep breath

AND LET IT GO.



Add texture to your graphic with 3M™ Décor Overlaminates. And for longer term displays choose overlaminates that provide UV protection.

## Key Overlaminates



▶  
3M™ Wrap Overlamine 8900-CF100  
Carbon Fiber



## Key Overlaminates

| Product | Description                                     | Applications                    | Type   |
|---------|---|---------------------------------|--|
| 3645    | 3M™ Scotchcal™ Luster Overlaminat 3645          | Floors                          | Luster   |
| 3647    | 3M™ Scotchcal™ Matte Overlaminat 3647           | Floors, Sidewalks               | Matte  |
| 3658G   | 3M™ Scotchcal™ Gloss Overlaminat 3658G          | Backlit Signs                   | Gloss  |
| 3660M   | 3M™ Scotchcal™ Matte Overlaminat 3660M          | Backlit Signs                   | Matte  |
| 8048G   | 3M™ Envision™ Gloss Overlaminat 8048G           | Vehicles/Fleet, Walls, Displays | Gloss  |
| 8050M   | 3M™ Envision™ Matte Overlaminat 8050M           | Vehicles/Fleet, Walls, Displays | Matte  |
| 8418G   | 3M™ Scotchcal™ Thin Gloss Overlaminat 8418G     | Vehicles/Fleet, Walls           | Gloss  |
| 8508    | 3M™ Scotchcal™ Gloss Overlaminat 8508           | Walls, Displays                 | Gloss  |
| 8509    | 3M™ Scotchcal™ Luster Overlaminat 8509          | Walls, Floors, Displays         | Luster   |
| 8510M   | 3M™ Scotchcal™ Matte Overlaminat 8510M          | Walls, Displays                 | Matte  |
| 8518    | 3M™ Scotchcal™ Gloss Overlaminat 8518           | Vehicles/Fleet, Walls, Windows  | Gloss  |
| 8519    | 3M™ Scotchcal™ Luster Overlaminat 8519          | Vehicles/Fleet, Walls, Displays | Luster   |
| 8520    | 3M™ Scotchcal™ Matte Overlaminat 8520           | Vehicles/Fleet, Walls, Displays | Matte  |
| 8528    | 3M™ Scotchcal™ Gloss Overlaminat 8528           | Vehicles/Fleet                  | Gloss  |
| 8548G   | 3M™ Envision™ Gloss Wrap Overlaminat 8548G      | Vehicles/Fleet, Walls           | Gloss  |
| 8549L   | 3M™ Envision™ Luster Wrap Overlaminat 8549L     | Vehicles/Fleet, Walls, Displays | Luster   |
| 8550M   | 3M™ Envision™ Matte Wrap Overlaminat 8550M      | Vehicles/Fleet, Walls, Displays | Matte  |
| 8600    | 3M™ Décor Overlaminat 8600                      | Walls, Displays                 | Classic Linen<br>White Fir<br>Plaster                                      |
| 8900    | 3M™ Wrap Overlaminat Series 8900                | Vehicles/Fleet                  | Riverbed<br>Knit<br>Brushed<br>Carbon Fiber<br>Sparkle (multiple finishes) |
| 8914    | 3M™ Scotchcal™ Optically Clear Overlaminat 8914 | Vehicles/Fleet, Windows         | Gloss  |
| 8915    | 3M™ Scotchcal™ Ultra-Matte Overlaminat 8915     | Walls, Displays                 | Ultra-Matte  |

# Installation Tools

## 3M™ Knifeless Tapes

# To be the best, use the best.

Don't risk nicks or cuts from a blade on the vehicle or substrate, use 3M™ Knifeless Tapes. Knifeless tape technology is designed to cut graphic film without a knife for clean, risk-free cuts every time.







## Installation Tools

# Tools cut out for success.



**3M™ Finish Line Knifeless Tape**  
Easily cuts most vinyl wrap films — complete installations without a blade.



**3M™ Bridge Line Knifeless Tape**  
Evenly cuts graphics bridging from one panel to the next.



**3M™ Perf Line Knifeless Tape**  
Cuts uniform margins between window graphics and rubber moldings.



**3M™ Design Line Knifeless Tape**  
Engineered to create highly contoured designs with sharp, clean edges.



**3M™ Tri Line Knifeless Tape (6mm and 9mm)**  
Ensures accurate, consistent stripe width from one end of the vehicle to the other.



**3M™ Two-Handled Textured Surface Applicator TSA-4 for Large Area**  
Increases installation productivity.  
Requires heat gun (not included).



The TSA roller reduces installation time and arm fatigue.



**3M™ Air Release Tool 391x**  
Punctures applied film to remove air bubbles.



**3M™ Hand Applicator PA1-Blue and PA1-Gold**  
Reusable squeegee-type applicator for smoothing film during installs.



**3M™ Power Grip Rivet Brush Applicator RBA-3**  
Burnishes film over rivets.



**3M™ Power Grip Magic Pad Rivet Applicator CMP-1**  
Designed for installing 3M™ Controltac™ Graphic Films with Comply™ Adhesive over rivets.



**3M™ Rivet Brush Applicator RBA-1**  
Helps to install films over rivets.



**3M™ Power Grip Multi-Pin Air Release Tool MPP-1**  
Uniquely designed to release the air around rivets in one single motion.





**3M™ Textured Surface Applicator TSA-2**  
Conforms heated film to mortar joints and inside corners.



**3M™ Roller L (large)**  
**3M™ Roller S (small)**  
Finishing tool for vehicle channels.



**3M™ Rapid Roller Applicator CPA-2**  
Exclusively for applying 3M™ Controltac™ Graphic Films with Comply™ Adhesive.



**3M™ Power Grip Applicator for 3M™ Comply™ Adhesive Films CPA-1**  
Covers large areas with uniform pressure distribution.



**3M™ Adhesion Test Kit for SMOOTH Substrates ATK-1**  
Instructions, instruments and film samples to perform adhesion value testing.



**3M™ Textured Surface Applicator TSA-3**  
Conforms heated film around cut edges and in corners.



**3M™ Vehicle Channel Applicator Tool VCAT-2**  
Helps to conform film into vehicle channels.



**3M™ Textured Surface Applicator TSA-1**  
Conforms large areas of film onto textured surfaces.

## Geek Wraps® tools

All of our Geek Wraps® tools are part of the Certified and Preferred training programs.



**Geek Wraps® Power Slam Magnets**  
Holds film to vehicle during installation without damaging the vehicle or graphics.



**Geek Wraps® Soft Edge Squeegee**  
Micro-fiber edge does not heat up and absorbs water from the edges of film.



**Geek Wraps® Wrap Juice**  
For use with Comply™ Adhesive films to help squeegees easily glide over warmed film.



**Geek Wraps® Wrap Wand**  
Helps to lay vinyl into tight crevices and score body seams.



**Geek Wraps® Heat Gun Grip**  
Adheres around heat gun body, staying clear of hot sections and exhaust areas.



**Geek Wraps® Air Wrangler Torch Roller**  
Helps to apply film to rivets and textured surfaces.



**Geek Wraps® Emblem Removal Tool**  
Removes emblems intact without damaging the vehicle's paint.

# Warranty





# Feel confident; you're covered.

## 3M™ MCS™ Warranty

### The most comprehensive finished graphics warranty in the industry.

The 3M™ MCS™ Warranty ensures that all elements of a graphic – from film and ink, to adhesive, tape, and protective coating – will perform at its best, consistently over time, and in the harshest environments.

For more information, go to [3M.com/graphicswarranties](https://www.3m.com/graphicswarranties)



3M™ MCS™ Warranty

All warranty coverage is contingent upon using 3M Graphics products as described in the applicable 3M Graphics Product and Instruction Bulletins found at [3Mgraphics.com/TechInfo](https://www.3m.com/TechInfo).

# Installation





# Up your wrap game.

Gain a competitive advantage with 3M Graphics Installation Programs. We offer the best-in-class Graphics Installation Training and Testing Programs across the country.

Professional installers who pass unique 3M installation testing programs will be designated as the best in the business. If your installation skills need a little fine tuning, we can give you personalized advanced training to get you prepared for an installer testing program.



**3M Advanced**  
Installation Training

## **3M Advanced Installation Training**

Get three days of personal, hands-on advanced training from 3M Graphics Authorized Trainers. Practice your skills on 10 stations, including vehicle graphics, smooth and textured walls and floor graphics.



**3M Certified**  
Graphics Installation Company

## **3M Certified Graphics Installation Company Training and Testing**

Once at least one of your installers successfully completes all testing and requirements, your company will be promoted on 3M.com/ GraphicsInstaller and UASG.org



**3M Preferred**  
Graphics Installer

## **3M Preferred Graphics Installer Testing**

Successfully passing this accreditation will increase your status as an installer. You'll be listed as a 3M Preferred Graphics Installer on the Locate an Installer link on 3M.com/GraphicsInstaller.



**3M Endorsed**  
Knifeless Tape  
Installer

## **3M Endorsed Installer for Knifeless Tape**

Qualified 3M Graphics Installers will get hands-on training using 3M™ Knifeless Tape technology. Once you've successfully completed the 3M Endorsed Knifeless Tape assessment, you can differentiate yourself from other installers while increasing the value you offer your customers.

Find out how to be the best at [3M.com/InstallationPrograms](https://www.3m.com/InstallationPrograms).

# GREENGUARD Gold



▶ 3M™ Envision™ Print Film 48C and  
3M™ Envision™ Gloss Overlamine 8048G



# No PVCs, no phthalates, no problem.

3M™ Envision™ Films and Overlaminates have earned the prestigious GREENGUARD Gold Certification. This certification requires that products meet some of the world's most rigorous third-party testing standards for low emissions of volatile organic compounds into indoor environments. Now you can offer a greener graphic solution that will contribute to healthier indoor air quality.



**GREENGUARD  
Gold Certified**

## **3M products now covered by GREENGUARD Gold Certification are:**

- 3M™ Envision™ Print Wrap Films LX480mC and SV480mC
- 3M™ Envision™ Wrap Overlaminates 8548G, 8549L and 8550M
- 3M™ Envision™ Print Film 48C-20R
- 3M™ Envision™ Overlaminates 8048G and 8050M

# Product Specs

## Printable Films

|                      |  | AVAILABILITY                                    |  | APPLICATIONS        |          |            |         |       |                 |                     |        |              |                           |                 | DURABILITY/WARRANTIES |                                   |                   | APPLICATION SURFACES |      |                  |            |               |
|----------------------|--|---|--|---------------------|----------|------------|---------|-------|-----------------|---------------------|--------|--------------|---------------------------|-----------------|-----------------------|-----------------------------------|-------------------|----------------------|------|------------------|------------|---------------|
| NUMBER               | IJ MEDIA   | Roll widths (in inches); Core sizes (in inches) | Roll lengths (in yards unless otherwise specified) | Trailers/Box Trucks | Vehicles | Watercraft | Transit | Label | Signage-Backlit | Signage-Non Backlit | Awning | Smooth Walls | Textured Walls & Surfaces | Window or Glass | Floor                 | Expected Performance Life (Years) | 3M™ MCS™ Warranty | PG                   | Flat | Flat with Rivets | Corrugated | Simple Curves |
| 40C-10R<br>40C-20R   | 3M™ Controltac™ Print Film 40C-10R and 40C-20R                 | 30, 54, 60; 3, 6                                | 50/100/200   | •                   | •        |            |         | •     |                 | •                   |        | •            |                           | •               | •                     | 7                                 |                   |                      | •    |                  |            | •             |
| 40C-114R             | 3M™ Controltac™ Print Film 40C-114R                            | 30, 54, 60; 3, 6                                | 50/100/200   | •                   | •        |            |         | •     |                 | •                   |        | •            |                           | •               | •                     | 7                                 |                   |                      | •    |                  |            | •             |
| 48C-20R              | 3M™ Envision™ Print Film 48C-20R                               | 54; 3   | 50   | •                   | •        |            |         | •     |                 | •                   |        | •            |                           | •               | •                     | 5                                 |                   |                      | •    |                  |            | •             |
| 780mC-10R            | 3M™ Scotchlite™ Print Wrap Film 780mC-10R                      | 48; 3, 6  | 25/50/100  | •                   | •        | •          | •       |       |                 | •                   |        |              | •                         |                 |                       | 9                                 | •                 | •                    | •    | •                | •          | •             |
| 8170-P40<br>8170-P50 | 3M™ Window Film 8170-P40 and 8170-P50                          | 36, 53.5; 3, 6                                  | 10/25/50   |                     |          |            |         |       |                 |                     |        |              |                           | •               |                       | 3                                 | •                 |                      | •    |                  |            | •             |
| IJ160                | 3M™ Controltac™ Graphic Film IJ160                             | 30, 48, 54, 60; 3, 6                            | 50/100/150/200                                     | •                   |          |            | •       | •     |                 | •                   |        | •            |                           | •               | •                     | 7                                 | •                 | •                    | •    |                  |            | •             |
| IJ160C               | 3M™ Controltac™ Graphic Film with Comply™ Adhesive IJ160C      | 30, 48, 54, 60; 3, 6                            | 50/100/150/200                                     | •                   |          |            | •       | •     |                 | •                   |        | •            |                           | •               |                       | 7                                 | •                 | •                    | •    |                  |            | •             |
| IJ170Cv3             | 3M™ Scotchcal™ Graphic Film with Comply™ v3 Adhesive IJ170Cv3  | 54; 3, 6  | 50/100/200   | •                   | •        | •          | •       | •     |                 | •                   |        | •            |                           | •               |                       | 10                                | •                 | •                    | •    | •                | •          | •             |
| IJ175Cv3             | 3M™ Print Wrap Film IJ175Cv3                                   | 54, 60; 3, 6                                    | 50/100/200   | •                   | •        | •          | •       | •     |                 | •                   |        | •            |                           |                 |                       | 10                                | •                 | •                    | •    | •                | •          | •             |
| IJ180                | 3M™ Controltac™ Graphic Film IJ180                             | 30, 36, 48, 54, 60; 3, 6                        | 25/50/100/200                                      | •                   | •        | •          | •       | •     |                 | •                   | •      | •            |                           | •               |                       | 10                                | •                 | •                    | •    | •                | •          | •             |
| IJ180C               | 3M™ Controltac™ Graphic Film with Comply™ Adhesive IJ180C      | 30, 36, 48, 54, 60; 3, 6                        | 25/50/100/200                                      | •                   | •        | •          | •       | •     |                 | •                   |        | •            |                           | •               |                       | 10                                | •                 | •                    | •    | •                | •          | •             |
| IJ180Cv3             | 3M™ Controltac™ Graphic Film with Comply™ v3 Adhesive IJ180Cv3 | 30, 36, 48, 54, 60; 3, 6                        | 25/50/100/200                                      | •                   | •        | •          | •       | •     |                 | •                   |        | •            |                           | •               |                       | 10                                | •                 | •                    | •    | •                | •          | •             |
| IJ180mC-10           | 3M™ Print Wrap Film IJ180mC-10                                 | 30, 36, 48, 54, 60; 3, 6                        | 25/50/100/200                                      | •                   | •        | •          | •       | •     |                 | •                   |        | •            |                           | •               |                       | 10                                | •                 | •                    | •    | •                | •          | •             |
| IJ180mC-10LSE        | 3M™ Print Wrap Film IJ180mC-10LSE                              | 48, 54, 60; 3                                   | 25/50/100  |                     |          |            |         | •     |                 |                     |        |              |                           |                 |                       | 10                                | •                 |                      | •    | •                |            | •             |
| IJ180mC-10SLS        | 3M™ Print Wrap Film IJ180mC-10SLS                              | 48, 54, 60; 3, 6                                | 25/50/100/200                                      | •                   |          |            |         |       |                 | •                   |        |              |                           |                 |                       | 10                                | •                 | •                    | •    | •                | •          | •             |
| IJ180mC-10UR         | 3M™ Print Wrap Film IJ180mC-10UR                               | 48, 54, 60; 3, 6                                | 50/100/200   | •                   | •        |            | •       |       |                 | •                   |        | •            |                           | •               |                       | 8                                 | •                 | •                    | •    | •                |            | •             |
| IJ180mC-114          | 3M™ Print Wrap Film IJ180mC-114                                | 48, 54, 60; 3                                   | 25/50  | •                   | •        | •          | •       | •     |                 | •                   |        | •            |                           | •               |                       | 10                                | •                 | •                    | •    | •                | •          | •             |
| IJ180mC-120          | 3M™ Print Wrap Film IJ180mC-120                                | 54, 60, 48; 3                                   | 25/50  | •                   | •        | •          | •       | •     |                 | •                   |        | •            |                           | •               |                       | 10                                | •                 | •                    | •    | •                | •          | •             |
| IJ35-10<br>IJ35-20   | 3M™ Scotchcal™ Graphic Film IJ35-10 and IJ35-20                | 30, 54, 60.5; 3, 6                              | 50/100/200   |                     |          |            |         | •     |                 | •                   |        | •            |                           |                 |                       | 5                                 |                   |                      | •    |                  |            | •             |
| IJ35C-10<br>IJ35C-20 | 3M™ Scotchcal™ Graphic Film with Comply™ Adhesive Series IJ35C | 30, 54, 60.5; 3, 6                              | 50/100/200   |                     |          |            |         | •     |                 | •                   |        | •            |                           |                 |                       | 5                                 |                   |                      | •    |                  |            | •             |
| IJ3555               | 3M™ Scotchcal™ Changeable Graphic Film IJ3555                  | 30, 54, 60; 3, 6                                | 50/100/150/200                                     | •                   |          |            | •       |       |                 | •                   |        | •            |                           | •               |                       | 2                                 | •                 | •                    | •    |                  |            | •             |
| IJ36-20              | 3M™ Transit Ad Graphic Film IJ36-20                            | 54, 61.5; 3, 6                                  | 50/100/200   | •                   |          |            | •       |       |                 | •                   |        |              |                           |                 |                       | 1                                 |                   |                      | •    |                  |            | •             |
| IJ3630-20            | 3M™ Scotchcal™ Translucent Graphic Film IJ3630-20              | 48, 54, 60; 3, 6                                | 50/100/150/200                                     |                     |          |            |         |       | •               |                     | •      |              |                           | •               |                       | 7                                 | •                 | •                    | •    |                  |            | •             |
| IJ3650-10            | 3M™ Scotchcal™ Graphic Film Series IJ3650-10                   | 30, 48, 54, 60; 3, 6                            | 25/50/100/150/200                                  | •                   |          |            |         | •     |                 | •                   | •      |              |                           |                 |                       | 10                                | •                 | •                    | •    | •                |            | •             |
| IJ3650-114           | 3M™ Scotchcal™ Graphic Film Series IJ3650-114                  | 48, 54, 60; 3, 6                                | 50   | •                   |          |            |         | •     | •               | •                   | •      |              |                           | •               |                       | 8                                 | •                 | •                    | •    | •                |            | •             |



| APPLICATION SURFACES (CONT.) |               |                     |                           | FILM CHARACTERISTICS |          |                  |                  |             | ADHESIVE   |                |  |                 | ADHESIVE CHARACTERISTICS |                                      |               |   | IMAGING METHOD                    |                                    |  | LINER                      |           |              |                           |           |             |
|------------------------------|---------------|---------------------|---------------------------|----------------------|----------|------------------|------------------|-------------|--|----------------|--|-----------------|--------------------------|--------------------------------------|---------------|---|-----------------------------------|------------------------------------|--|----------------------------|-----------|--------------|---------------------------|-----------|-------------|
| Compound Curves              | Deep Channels | Flexible Substrates | Textured Walls & Surfaces | GRENGUARD Gold       | Material | Cast or Non-Cast | Thickness (mils) | Face Finish | Opaque/<br>Translucent/<br>Transparent/<br>Perforated/<br>Retroreflective/<br>Metallic | Adhesive Color | Characteristics  | Ultra-Removable | Removable with Heat      | Removable with Heat and/or Chemicals | Not Removable | Installation Characteristics (1 high skill - 5 low skill) | 24 hour Adhesion (1 low - 5 high) | Ultimate Adhesion (1 low - 5 high) | Removability (1 not removable - 5 removable) | Inkjet-Solvent/Eco-Solvent | Inkjet-UV | Inkjet Latex | Polyethylene-Coated Paper | Polyester | Kraft Paper |
|                              |               |                     |                           |                      | Vinyl    | Non-Cast         | 3                | G,M         | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      | 5             | 3   | 2                                 | 4                                  | •  | •                          | •         | •            |                           |           |             |
|                              |               |                     |                           |                      | Vinyl    | Non-Cast         | 3                | G           | Transparent  | Clear          | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      | 5             | 3   | 2                                 | 4                                  | •  | •                          | •         | •            |                           |           |             |
|                              |               |                     |                           | 🍃                    | Non-PVC  | Non-Cast         | 3                | M           | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      | 4             | 3   | 2                                 | 4                                  | •  | •                          | •         | •            |                           |           |             |
| •                            |               |                     | •                         |                      | Vinyl    | N/A              | 7                | L           | Retroreflective  | Clear          | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      | 4             | 2   | 2                                 | 4                                  | •  | •                          | •         | •            |                           |           |             |
|                              |               |                     |                           |                      | Vinyl    | Cast             | 4                | G           | Opaque/Perforated  | Clear          | Pressure-Sensitive                                       |                 | •                        |                                      | 2             | 2   | 2                                 | 3                                  | •  | •                          | •         | •            |                           |           |             |
|                              |               |                     |                           |                      | Vinyl    | Non-Cast         | 4                | M           | Opaque   | Gray           | Pressure-Activated                                       |                 | •                        |                                      | 3             | 3   | 2                                 | 4                                  | •  | •                          | •         | •            |                           |           |             |
|                              |               |                     |                           |                      | Vinyl    | Non-Cast         | 4                | M           | Opaque   | Gray           | Pressure-Activated with Air Release Channels             |                 | •                        |                                      | 5             | 3   | 2                                 | 4                                  | •  | •                          | •         | •            |                           |           |             |
| •                            |               |                     |                           |                      | Vinyl    | Cast             | 2                | L           | Opaque   | Gray           | Pressure-Sensitive with Non-Visible Air Release Channels |                 |                          | •                                    | 3             | 4   | 5                                 | 2                                  | •  | •                          | •         | •            |                           |           |             |
| •                            | •             |                     |                           |                      | Vinyl    | Cast             | 2                | L           | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 |                          | •                                    | 4             | 4   | 5                                 | 2                                  | •  | •                          | •         | •            |                           |           |             |
| •                            | •             |                     |                           |                      | Vinyl    | Cast             | 2                | L           | Opaque   | Gray           | Pressure-Activated                                       |                 | •                        |                                      | 3             | 3   | 4                                 | 3                                  | •  | •                          | •         | •            |                           |           |             |
| •                            | •             |                     |                           |                      | Vinyl    | Cast             | 2                | L           | Opaque   | Gray           | Pressure-Activated with Air Release Channels             |                 | •                        |                                      | 5             | 3   | 4                                 | 3                                  | •  | •                          | •         | •            |                           |           |             |
| •                            | •             |                     |                           |                      | Vinyl    | Cast             | 2                | L           | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      | 4             | 3   | 4                                 | 3                                  | •  | •                          | •         | •            |                           |           |             |
| •                            | •             |                     |                           |                      | Vinyl    | Cast             | 2                | L           | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 |                          |                                      | •             | 2   | 5                                 | 5                                  | 1  | •                          | •         | •            | •                         |           |             |
| •                            |               |                     |                           |                      | Vinyl    | Cast             | 2                | L           | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 |                          |                                      | •             | 3   | 5                                 | 5                                  | 1  | •                          | •         | •            | •                         |           |             |
| •                            |               |                     |                           |                      | Vinyl    | Cast             | 2                | L           | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels | •               |                          |                                      | 4             | 1   | 1                                 | 5                                  | •  | •                          | •         | •            |                           |           |             |
| •                            | •             |                     |                           |                      | Vinyl    | Cast             | 2                | L           | Transparent  | Clear          | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      | 4             | 3   | 4                                 | 3                                  | •  | •                          | •         | •            |                           |           |             |
| •                            | •             |                     |                           |                      | Vinyl    | Cast             | 2                | L           | Metallic   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      | 4             | 3   | 4                                 | 3                                  | •  | •                          | •         | •            |                           |           |             |
|                              |               |                     |                           |                      | Vinyl    | Non-Cast         | 3.2              | G,M         | Opaque   | Gray           | Pressure-Sensitive                                       |                 |                          |                                      | •             | 1   | 5                                 | 5                                  | 1  | •                          | •         | •            | •                         |           |             |
|                              |               |                     |                           |                      | Vinyl    | Non-Cast         | 3.2              | G,M         | Opaque   | Gray           | Pressure-Sensitive with Air Release channels             |                 |                          |                                      | •             | 2   | 5                                 | 5                                  | 1  | •                          | •         | •            | •                         |           |             |
|                              |               |                     |                           |                      | Vinyl    | Non-Cast         | 4                | M           | Opaque   | Gray           | Pressure-Sensitive                                       | •               |                          |                                      | 2             | 1   | 1                                 | 5                                  | •  | •                          | •         | •            |                           |           |             |
|                              |               |                     |                           |                      | Vinyl    | Non-Cast         | 3.4              | M           | Opaque   | Gray           | Pressure-Sensitive                                       | •               |                          |                                      | 2             | 1   | 1                                 | 5                                  | •  | •                          | •         | •            |                           |           |             |
|                              |               | •                   |                           |                      | Vinyl    | Cast             | 2                | M           | Translucent  | Clear          | Pressure-Sensitive                                       |                 |                          |                                      | •             | 1   | 5                                 | 5                                  | 1  | •                          | •         | •            | •                         |           |             |
|                              |               | •                   |                           |                      | Vinyl    | Cast             | 2                | L           | Opaque   | Gray           | Pressure-Sensitive                                       |                 |                          |                                      | •             | 2   | 1                                 | 1                                  | 1  | •                          | •         | •            | •                         |           |             |
|                              |               | •                   |                           |                      | Vinyl    | Cast             | 2                | L           | Transparent  | Clear          | Pressure-Sensitive                                       |                 |                          |                                      | •             | 1   | 5                                 | 5                                  | 1  | •                          | •         | •            | •                         |           |             |

# Product Specs

## Printable Films, Colored Films, Transluents and Flexible Substrates

|                            |   | AVAILABILITY                                    |  | APPLICATIONS        |          |            |         |       |                 |                     |        |              |                           |                 | DURABILITY/WARRANTIES |                                   |                   | APPLICATION SURFACES |      |                  |            |               |
|----------------------------|---|---|--|---------------------|----------|------------|---------|-------|-----------------|---------------------|--------|--------------|---------------------------|-----------------|-----------------------|-----------------------------------|-------------------|----------------------|------|------------------|------------|---------------|
| NUMBER                     | IJ MEDIA  | Roll widths (in inches); Core sizes (in inches) | Roll lengths (in yards unless otherwise specified) | Trailers/Box Trucks | Vehicles | Watercraft | Transit | Label | Signage-Backlit | Signage-Non Backlit | Awning | Smooth Walls | Textured Walls & Surfaces | Window or Glass | Floor                 | Expected Performance Life (years) | 3M™ MCS™ Warranty | PG                   | Flat | Flat with Rivets | Corrugated | Simple Curves |
| IJ3730                     | 3M™ Envision™ Translucent Film IJ3730   | 54; 3, 6  | 50/100/150/200                                     |                     |          |            |         |       | •               |                     | •      |              |                           | •               |                       | 7                                 | •                 | •                    | •    |                  |            | •             |
| IJ380Cv3                   | 3M™ Controltac™ Wrap Film with Comply™ v3 Adhesive IJ380Cv3                                       | 54; 3   | 25/50  |                     | •        | •          |         |       |                 |                     |        |              |                           |                 |                       | 10                                | •                 | •                    | •    | •                | •          | •             |
| IJ39-20                    | 3M™ Scotchcal™ High Tack Graphic Film IJ39-20   | 54; 3   | 50   | •                   |          |            |         | •     |                 | •                   |        | •            |                           |                 |                       | 5                                 |                   |                      | •    |                  |            | •             |
| IJ46-20                    | 3M™ Transit Wrap Graphic Film IJ46-20   | 54, 60; 3, 6                                    | 50/100/200   | •                   |          |            | •       |       |                 | •                   |        | •            |                           |                 |                       | 1                                 |                   |                      | •    |                  |            | •             |
| IJ5000                     | 3M™ Scotchlite™ Reflective Graphic Film 5000/IJ5000   | 48; 3   | 50   | •                   |          |            |         | •     |                 | •                   |        | •            |                           |                 |                       | 1.5                               |                   |                      | •    | •                |            | •             |
| IJ5100R                    | 3M™ Scotchlite™ Reflective Graphic Film 5100R/IJ5100R   | 48; 3   | 10/50  | •                   |          |            | •       | •     |                 |                     |        |              |                           |                 |                       | 7                                 |                   | •                    | •    | •                |            | •             |
| IJ61                       | 3M™ Changeable Graphic Film IJ61  | 54; 3   | 50   |                     |          |            |         |       |                 | •                   |        |              |                           | •               |                       | 1                                 |                   |                      | •    |                  |            | •             |
| IJ63-20                    | 3M™ Scotchcal™ Changeable Translucent Graphic Film IJ63-20  | 54; 3, 6  | 50/100/200   |                     |          |            |         |       | •               | •                   |        |              |                           | •               |                       | 1                                 |                   |                      | •    |                  |            | •             |
| IJ67                       | 3M™ Scotchcal™ Perforated Window Film IJ67  | 54; 3   | 10/25/50   | •                   |          |            | •       |       |                 |                     |        |              |                           | •               |                       | 1                                 |                   |                      | •    |                  |            | •             |
| IJ680                      | 3M™ Scotchlite™ Reflective Graphic Film IJ680   | 36, 48; 3, 6                                    | 50/100   | •                   |          |            | •       | •     |                 |                     |        |              |                           |                 |                       | 9                                 | •                 | •                    | •    | •                | •          | •             |
| IJ680CR                    | 3M™ Scotchlite™ Removable Reflective Film with Comply™ Adhesive IJ680CR                           | 36, 48; 3, 6                                    | 50/100   | •                   |          |            | •       | •     |                 |                     |        |              |                           |                 |                       | 9                                 | •                 | •                    | •    | •                | •          | •             |
| IJ8150                     | 3M™ Scotchcal™ Clear View Graphic Film IJ8150   | 54, 60; 3                                       | 25/50  | •                   | •        |            | •       |       | •               | •                   |        |              |                           | •               |                       | 7                                 | •                 |                      | •    |                  |            | •             |
| IJ8624                     | 3M™ Scotchcal™ Graphic Film for Textured Surfaces IJ8624  | 30, 54; 3, 6                                    | 25/50/100/200                                      |                     |          |            |         |       |                 |                     |        |              | •                         |                 |                       | 7                                 |                   |                      | •    |                  |            | •             |
| LX480mC                    | 3M™ Envision™ Print Wrap Film LX480mC   | 48, 54, 60; 3                                   |  | •                   | •        | •          | •       | •     |                 | •                   |        | •            | •                         | •               |                       | 11                                | •                 | •                    | •    | •                | •          | •             |
| SV480mC                    | 3M™ Envision™ Print Wrap Film SV480mC   | 48, 54, 60; 3                                   | 50/100/  | •                   | •        | •          | •       | •     |                 | •                   |        | •            | •                         | •               |                       | 11                                | •                 | •                    | •    | •                | •          | •             |
| <b>Colored Films</b>       |   |   |  |                     |          |            |         |       |                 |                     |        |              |                           |                 |                       |                                   |                   |                      |      |                  |            |               |
| SC50                       | 3M™ Scotchcal™ Graphic Film Series SC50   | 48  | 5/50   | •                   |          |            | •       | •     |                 |                     |        | •            |                           | •               |                       | 5                                 |                   |                      | •    |                  |            | •             |
| 1080<br>2080               | 3M™ Wrap Film Series 1080<br>3M™ Wrap Film Series 2080  | 60; 3   | 5/10/25/50   | •                   | •        | •          | •       | •     |                 |                     |        |              |                           |                 |                       | 7++                               | •                 |                      | •    |                  |            | •             |
| 180mC                      | 3M™ Controltac™ Graphic Film with Comply™ Adhesive 180mC  | 36, 48, 60 (varies by color)                    | 50/100/150/200                                     | •                   | •        | •          | •       | •     |                 | •                   |        | •            |                           | •               |                       | 10                                | •                 |                      | •    | •                | •          | •             |
| 7125                       | 3M™ Scotchcal™ ElectroCut™ Graphic Film Series 7125   | 24, 48, 60                                      | 5/50/100/200/250                                   | •                   |          |            | •       | •     |                 | •                   |        | •            |                           | •               |                       | 8                                 | •                 |                      | •    | •                |            | •             |
| 7725                       | 3M™ Scotchcal™ ElectroCut™ Graphic Film Series 7725   | 48, 60  | 5/50/100/200/250                                   | •                   |          |            | •       | •     |                 | •                   |        | •            |                           | •               |                       | 8                                 | •                 |                      | •    | •                |            | •             |
| <b>Transluents</b>         |   |   |  |                     |          |            |         |       |                 |                     |        |              |                           |                 |                       |                                   |                   |                      |      |                  |            |               |
| 3630<br>3730               | 3M™ Scotchcal™ Translucent Graphic Film Series 3630<br>3M™ Envision™ Translucent Film Series 3730 | 48, 60*   | 50   |                     |          |            |         |       | •               |                     |        |              |                           |                 |                       | 7                                 | •                 |                      |      |                  |            |               |
| <b>Flexible Substrates</b> |   |   |  |                     |          |            |         |       |                 |                     |        |              |                           |                 |                       |                                   |                   |                      |      |                  |            |               |
| FS-1                       | 3M™ Envision™ Flexible Substrate FS-1   | 79, 98, 102, 126, 150, 165, 197                 | 164  |                     |          |            |         |       | •               |                     |        |              |                           |                 |                       | 6                                 | •                 |                      |      |                  |            |               |
| P3                         | 3M™ Panagraphics™ III Wide Width Flexible Substrate   | 59, 79, 98, 102, 126, 150, 165, 197             | 164  |                     |          |            |         |       | •               |                     |        |              |                           |                 |                       | 6                                 | •                 |                      |      |                  |            |               |

\*60" available in select colors

++Up to 7 years; see Product Bulletin for details



| APPLICATION SURFACES (CONT.) |               |                     |                           | FILM CHARACTERISTICS |                          |                  |                  |                 | ADHESIVE   |                |  |                 | ADHESIVE CHARACTERISTICS |                                      |               |   | IMAGING METHOD                    |                                    |  | LINER                       |           |              |                           |           |             |  |
|------------------------------|---------------|---------------------|---------------------------|----------------------|--------------------------|------------------|------------------|-----------------|--|----------------|--|-----------------|--------------------------|--------------------------------------|---------------|---|-----------------------------------|------------------------------------|--|-----------------------------|-----------|--------------|---------------------------|-----------|-------------|--|
| Compound Curves              | Deep Channels | Flexible Substrates | Textured Walls & Surfaces | GRENGUARD Gold       | Material                 | Cast or Non-Cast | Thickness (mils) | Face Finish     | Opaque/ Translucent/ Perforated/ Retroreflective/ Metallic | Adhesive Color | Characteristics  | Ultra-Removable | Removable with Heat      | Removable with Heat and/or Chemicals | Not Removable | Installation Characteristics (1 high skill - 5 low skill) | 24 hour Adhesion (1 low - 5 high) | Ultimate Adhesion (1 low - 5 high) | Removability (1 not removable - 5 removable) | Inkjet-Solvent/ Eco-Solvent | Inkjet-UV | Inkjet Latex | Polyethylene-Coated Paper | Polyester | Kraft Paper |  |
|                              |               | •                   |                           | 🍃                    | Vinyl                    | Cast             | 2                | M               | Translucent  | Clear          | Pressure-Sensitive                                       |                 |                          |                                      | •             | 1   | 5                                 | 5                                  | 1  | •                           | •         | •            | •                         |           |             |  |
| •                            | •             |                     |                           |                      | Vinyl                    | Cast             | 2                | L               | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 |                          | •                                    |               | 4   | 5                                 | 5                                  | 2  | •                           | •         | •            | •                         |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | Non-Cast         | 3.5              | M               | Opaque   | Clear          | Pressure-Sensitive                                       |                 |                          |                                      | •             | 1   | 5                                 | 5                                  | 1  | •                           | •         | •            | •                         |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | Non-Cast         | 4                | M               | Opaque   | Gray           | Pressure-Sensitive                                       | •               |                          |                                      |               | 2   | 1                                 | 1                                  | 5  | •                           | •         | •            | •                         |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | N/A              | 6                | L               | Retroreflective  | Clear          | Pressure-Sensitive                                       |                 |                          |                                      | •             | 1   | 3                                 | 3                                  | 1  | •                           | •         |              | •                         |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | N/A              | 7                | L               | Retroreflective  | Clear          | Pressure-Sensitive                                       |                 | •                        |                                      |               | 2   | 3                                 | 3                                  | 3  | •                           | •         | •            | •                         |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | Non-Cast         | 3                | G               | Transparent  | Clear          | Pressure-Sensitive                                       | •               |                          |                                      |               | 1   | 2                                 | 1                                  | 5  | •                           | •         | •            | •                         |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | Non-Cast         | 3.2              | M               | Translucent  | Clear          | Pressure-Sensitive                                       | •               |                          |                                      |               | 1   | 2                                 | 1                                  | 5  | •                           | •         | •            | •                         |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | Non-Cast         | 5.9              | M               | Opaque   | Clear          | Pressure-Sensitive                                       |                 | •                        |                                      |               | 2   | 2                                 | 4                                  | 2  | •                           | •         | •            | •                         |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | N/A              | 7                | L               | Retroreflective  | Clear          | Pressure-Activated                                       |                 |                          |                                      | •             | 2   | 3                                 | 4                                  | 1  | •                           | •         | •            | •                         |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | N/A              | 7                | L               | Retroreflective  | Clear          | Pressure-Activated with Air Release Channels             |                 | •                        |                                      |               | 3   | 3                                 | 3                                  | 3  | •                           | •         | •            | •                         |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | Cast             | 2                | G               | Transparent  | Clear          | Pressure-Sensitive                                       | •               |                          |                                      |               | 1   | 3                                 | 2                                  | 4  | •                           | •         | •            | •                         |           |             |  |
|                              |               |                     | •                         |                      | Vinyl                    | Cast             | 2                | L               | Opaque   | Gray           | Pressure-Sensitive                                       |                 | •                        |                                      |               | 2   | 4                                 | 4                                  | 3  | •                           |           | •            | •                         |           |             |  |
| •                            | •             |                     | •                         |                      | High Performance non-PVC | N/A              | 2                | L               | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      |               | 4   | 4                                 | 5                                  | 3  |                             |           | •            | •                         |           |             |  |
| •                            | •             |                     | •                         |                      | High Performance non-PVC | N/A              | 2                | L               | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      |               | 4   | 3                                 | 4                                  | 3  | •                           | •         |              | •                         |           |             |  |
| <b>Colored Films</b>         |               |                     |                           |                      |                          |                  |                  |                 |  |                |  |                 |                          |                                      |               |   |                                   |                                    |  |                             |           |              |                           |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | Non-Cast         | 3                | G, M            | Opaque   | Clear          | Pressure-Sensitive                                       |                 | •                        |                                      |               | 2   | 3                                 | 2                                  | 4  |                             |           |              |                           |           | •           |  |
| •                            |               |                     |                           |                      | Vinyl                    | Cast             | 3.5-5+           | G, S, M, BR, CF | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      |               | 5   | 3                                 | 4                                  | 4  |                             |           |              |                           | •         |             |  |
| •                            |               |                     |                           |                      | Vinyl                    | Cast             | 3                | G, M, L         | Opaque   | Gray           | Pressure-Activated with Non-visible Air Release Channels |                 | •                        |                                      |               | 4   | 3                                 | 4                                  | 3  |                             |           |              |                           | •         |             |  |
|                              |               |                     |                           |                      | Vinyl                    | Cast             | 3                | G, M, L         | Opaque   | Clear          | Pressure-Sensitive                                       |                 |                          |                                      | •             | 1   | 4                                 | 5                                  | 1  |                             |           |              |                           |           | •           |  |
|                              |               |                     |                           |                      | Vinyl                    | Cast             | 3                | G, M, L         | Opaque   | Clear          | Pressure-Sensitive                                       |                 |                          |                                      | •             | 1   | 4                                 | 5                                  | 1  |                             |           |              |                           |           | •           |  |
| <b>Transluents</b>           |               |                     |                           |                      |                          |                  |                  |                 |  |                |  |                 |                          |                                      |               |   |                                   |                                    |  |                             |           |              |                           |           |             |  |
|                              |               |                     |                           |                      | Vinyl                    | Cast             | 3                | M               | Translucent  | Clear          | Pressure-Sensitive                                       |                 |                          |                                      | •             | 1   | 4                                 | 5                                  | 1  |                             |           |              |                           |           | •           |  |
| <b>Flexible Substrates</b>   |               |                     |                           |                      |                          |                  |                  |                 |  |                |  |                 |                          |                                      |               |   |                                   |                                    |  |                             |           |              |                           |           |             |  |
|                              |               | •                   |                           |                      | Vinyl                    | N/A              | 20               | L               | Translucent  | N/A            |  |                 |                          |                                      |               |   |                                   |                                    |  | •                           | •         | •            |                           |           |             |  |
|                              |               | •                   |                           |                      | Vinyl                    | N/A              | 20               | L               | Translucent  | N/A            |  |                 |                          |                                      |               |   |                                   |                                    |  | •                           | •         | •            |                           |           |             |  |

# Product Specs

## Graphic Protection

|        |   | AVAILABILITY                                    |  | APPLICATIONS        |          |            |         |       |                 |                     |        |              |                           |                 | DURABILITY/WARRANTIES |                                   |                   | APPLICATION SURFACES |      |                  |            |               |
|--------|---|---|--|---------------------|----------|------------|---------|-------|-----------------|---------------------|--------|--------------|---------------------------|-----------------|-----------------------|-----------------------------------|-------------------|----------------------|------|------------------|------------|---------------|
| NUMBER | IJ MEDIA  | Roll widths (in inches); Core sizes (in inches) | Roll lengths (in yards unless otherwise specified) | Trailers/Box Trucks | Vehicles | Watercraft | Transit | Label | Signage-Backlit | Signage-Non Backlit | Awning | Smooth Walls | Textured Walls & Surfaces | Window or Glass | Floors/Sidewalks      | Expected Performance Life (years) | 3M™ MCS™ Warranty | PG                   | Flat | Flat with Rivets | Corrugated | Simple Curves |
| 1920DR | 3M™ Screen Print Dirt Resistant Gloss Clear 1920DR        | N/A   | N/A  | •                   |          |            | •       | •     |                 |                     |        |              |                           |                 |                       | 5                                 |                   | •                    | •    |                  |            |               |
| 3619   | 3M™ Scotchcal™ Luster Overlaminate 3619                   | 48, 54, 60; 3                                   | 50   |                     |          |            |         |       | •               | •                   | •      |              |                           |                 |                       | 6                                 | •                 |                      | •    |                  |            |               |
| 3620   | 3M™ Scotchcal™ Matte Overlaminate 3620                    | 48, 54, 60; 3                                   | 50   |                     |          |            |         |       | •               | •                   | •      |              |                           |                 |                       | 6                                 | •                 |                      | •    |                  |            |               |
| 3645   | 3M™ Scotchcal™ Luster Overlaminate 3645                   | 36, 48, 54; 3                                   | 50   |                     |          |            |         |       |                 |                     |        |              |                           |                 | •                     | 1                                 | •                 | •                    | •    |                  |            |               |
| 3647   | 3M™ Scotchcal™ Matte Overlaminate 3647                    | 48; 3   | 50   |                     |          |            |         |       |                 |                     |        |              |                           |                 | •                     | 0.25                              | •                 |                      | •    |                  |            |               |
| 3658G  | 3M™ Scotchcal™ Gloss Overlaminate 3658G                   | 48, 54, 60; 3                                   | 50   |                     |          |            |         |       | •               | •                   | •      |              |                           |                 |                       | 9                                 | •                 |                      | •    |                  |            | •             |
| 3660M  | 3M™ Scotchcal™ Matte Overlaminate 3660M                   | 48, 54, 60; 3                                   | 50   |                     |          |            |         |       | •               | •                   | •      |              |                           |                 |                       | 9                                 | •                 |                      | •    |                  |            | •             |
| 8048G  | 3M™ Envision™ Gloss Overlaminate 8048G                    | 54; 3   | 50   | •                   |          |            | •       | •     | •               | •                   |        | •            |                           | •               |                       | 4                                 |                   |                      | •    |                  |            | •             |
| 8050M  | 3M™ Envision™ Matte Overlaminate 8050M                    | 54; 3   | 50   | •                   |          |            | •       | •     | •               | •                   |        | •            |                           | •               | •                     | 4                                 |                   |                      | •    |                  |            | •             |
| 8418G  | 3M™ Scotchcal™ Thin Gloss Overlaminate 8418G              | 48.5, 54, 60; 3                                 | 25/50  | •                   | •        | •          | •       |       |                 | •                   |        |              |                           |                 |                       | 6                                 | •                 |                      | •    | •                | •          | •             |
| 8508   | 3M™ Scotchcal™ Gloss Overlaminate 8508                    | 30, 54, 61; 3                                   | 50/100   |                     |          |            | •       | •     | •               | •                   |        | •            |                           | •               |                       | 4                                 |                   |                      | •    |                  |            | •             |
| 8509   | 3M™ Scotchcal™ Luster Overlaminate 8509                   | 30, 54, 61; 3                                   | 50/100   |                     |          |            | •       | •     | •               | •                   |        | •            |                           | •               | •                     | 4                                 |                   |                      | •    |                  |            | •             |
| 8510M  | 3M™ Scotchcal™ Matte Overlaminate 8510M                   | 30, 54, 61; 3                                   | 50/100   |                     |          |            | •       | •     | •               | •                   |        | •            |                           | •               |                       | 4                                 |                   |                      | •    |                  |            | •             |
| 8518   | 3M™ Scotchcal™ Gloss Overlaminate 8518                    | 36, 48.5, 54, 60; 3                             | 25/50/100  | •                   | •        | •          | •       | •     | •               | •                   |        |              |                           |                 |                       | 8                                 | •                 | •                    | •    | •                | •          | •             |
| 8519   | 3M™ Scotchcal™ Luster Overlaminate 8519                   | 36, 48.5, 54, 60; 3                             | 25/50/100  | •                   | •        | •          | •       | •     | •               | •                   |        | •            |                           |                 |                       | 8                                 | •                 | •                    | •    | •                | •          | •             |
| 8520   | 3M™ Scotchcal™ Matte Overlaminate 8520                    | 36, 48.5, 54, 60; 3                             | 25/50/100  | •                   | •        | •          | •       | •     | •               | •                   |        | •            |                           |                 |                       | 8                                 | •                 | •                    | •    | •                | •          | •             |
| 8528   | 3M™ Scotchcal™ Gloss Overlaminate 8528                    | 54, 60; 3                                       | 25/50/100  | •                   | •        | •          | •       | •     | •               | •                   |        |              |                           |                 |                       | 9                                 | •                 | •                    | •    | •                | •          | •             |
| 8548G  | 3M™ Envision™ Gloss Wrap Overlaminate 8548G               | 54, 60; 3                                       | 25/50/100  | •                   | •        | •          | •       | •     | •               | •                   |        | •            | •                         | •               |                       | 9                                 | •                 | •                    | •    | •                | •          | •             |
| 8549L  | 3M™ Envision™ Luster Wrap Overlaminate 8549L              | 54; 3   | 25/50/100  | •                   | •        | •          | •       | •     | •               | •                   |        | •            | •                         | •               |                       | 9                                 | •                 | •                    | •    | •                | •          | •             |
| 8550M  | 3M™ Envision™ Matte Wrap Overlaminate 8550M               | 54, 60; 3                                       | 25/50/100  | •                   | •        | •          | •       | •     | •               | •                   |        | •            | •                         | •               |                       | 9                                 | •                 | •                    | •    | •                | •          | •             |
| 8600   | 3M™ Décor Overlaminate 8600                               | 60; 3   | 25/50  |                     |          |            |         |       |                 |                     |        | •            |                           |                 |                       | 8                                 | •                 |                      | •    |                  |            |               |
| 8900   | 3M™ Wrap Overlaminate Series 8900                         | 60; 3   | 25   | •                   | •        | •          | •       | •     | •               | •                   |        | •            |                           |                 |                       | 4                                 | •                 |                      | •    | •                |            | •             |
| 8914   | 3M™ Scotchcal™ Optically Clear Overlaminate 8914          | 48, 54; 3                                       | 10/25/50   | •                   | •        |            | •       |       |                 |                     |        |              |                           | •               |                       | 8                                 | •                 | •                    | •    |                  |            | •             |
| 8915   | 3M™ Scotchcal™ Ultra-Matte Overlaminate 8915              | 49, 54, 60; 3                                   | 50   | •                   |          |            | •       |       | •               | •                   |        | •            |                           | •               |                       | 8                                 | •                 | •                    | •    | •                | •          | •             |
| 8991   | 3M™ Scotchgard™ Graphic and Surface Protection Film 8991  | 48; 3   | 50   |                     |          |            |         | •     |                 |                     |        |              |                           | •               |                       | 3                                 |                   |                      | •    |                  |            |               |
| 8991R  | 3M™ Scotchgard™ Graphic and Surface Protection Film 8991R | 48; 3   | 50   |                     |          |            |         | •     |                 |                     |        |              |                           | •               |                       | 3                                 |                   |                      | •    |                  |            |               |
| 8993   | 3M™ Scotchgard™ Graphic and Surface Protection Film 8993  | 48; 3   | 50   |                     |          |            |         | •     |                 |                     |        |              |                           | •               |                       | 5                                 |                   |                      | •    |                  |            |               |
| 9740i  | 3M™ Screen Print UV Gloss Clear 9740i                     | N/A   | N/A  | •                   |          |            | •       | •     |                 |                     |        |              |                           |                 |                       | 6                                 | •                 | •                    | •    | •                | •          | •             |
| 9760LX | 3M™ Screen Print UV Gloss Clear 9760LX                    | N/A   | N/A  | •                   |          |            | •       | •     |                 |                     |        |              |                           |                 |                       | 6                                 | •                 |                      | •    | •                | •          | •             |



| APPLICATION SURFACES (CONT.) |               |                     |                   | FILM CHARACTERISTICS |                          |                  |                  |             | ADHESIVE   |                 |                    |                                      | TEST RATINGS (1=poor; 5=excellent) |  |                 |                     | IMAGING METHOD              |                    |                             | LINER     |              |                           |           |             |
|------------------------------|---------------|---------------------|-------------------|----------------------|--------------------------|------------------|------------------|-------------|--|-----------------|--------------------|--------------------------------------|------------------------------------|--|-----------------|---------------------|-----------------------------|--------------------|-----------------------------|-----------|--------------|---------------------------|-----------|-------------|
| Compound Curves              | Deep Channels | Flexible Substrates | Textured Surfaces | GREENGUARD Gold      | Material                 | Cast or Non-Cast | Thickness (mils) | Face Finish | Opaque/ Translucent/ Transparent/ Perforated Retroreflective/ Metallic | Adhesive Color  | Characteristics    | Removable with Heat and/or Chemicals | Not Removable                      | Compatible Base Films (2)mil vinyl, (4) mil vinyl, (Env)vision | Fuel Resistance | Graffiti Resistance | High Temperature Resistance | Scratch Resistance | Inkjet-Solvent/ Eco-Solvent | Inkjet-UV | Inkjet-Latex | Polyethylene-Coated Paper | Polyester | Kraft Paper |
|                              |               |                     |                   |                      | N/A                      | N/A              | N/A              | G           | Transparent  | N/A             | N/A                |                                      | •                                  | 4  | 3               | 2                   | 1                           | 2                  | •                           |           | •            |                           |           |             |
|                              |               | •                   |                   |                      | Vinyl                    | Cast             | 2                | L           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | FS-1, P3   | 2               | 2                   | 1                           | 2                  | •                           | •         | •            |                           |           | •           |
|                              |               | •                   |                   |                      | Vinyl                    | Cast             | 2                | M           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | FS-1, P3   | 2               | 2                   | 1                           | 1                  | •                           | •         | •            |                           |           | •           |
|                              |               |                     |                   |                      | Vinyl                    | Non-Cast         | 8                | L           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | IJ160, 40C, 3662   | 1               | 1                   | 1                           | 4                  | •                           | •         | •            |                           |           | •           |
|                              |               |                     |                   |                      | Vinyl                    | Non-Cast         | 19               | M           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 3662   | 1               | 1                   | 1                           | 4                  |                             |           |              |                           |           | •           |
|                              |               | •                   |                   |                      | Vinyl                    | Cast             | 2                | G           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | FS-1, P3   | 3               | 3                   | 1                           | 4                  | •                           | •         | •            |                           |           | •           |
|                              |               | •                   |                   |                      | Vinyl                    | Cast             | 2                | M           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | FS-1, P3   | 3               | 3                   | 1                           | 5                  | •                           | •         | •            |                           |           | •           |
|                              |               |                     |                   | •                    | Non-PVC                  | Non-Cast         | 2                | G           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 4  | 5               | 5                   | 3                           | 5                  | •                           | •         | •            |                           |           | •           |
|                              |               |                     |                   | •                    | Non-PVC                  | Non-Cast         | 2                | M           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 4  | 5               | 5                   | 3                           | 4                  | •                           | •         | •            |                           |           | •           |
| •                            | •             |                     |                   |                      | Vinyl                    | Cast             | 1.2              | G           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 2, 4, Env  | 2               | 3                   | 1                           | 1                  | •                           | •         | •            |                           |           | •           |
|                              |               |                     |                   |                      | Vinyl                    | Cast             | 2.3              | G           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 4  | 3               | 3                   | 1                           | 1                  | •                           | •         | •            |                           |           | •           |
|                              |               |                     |                   |                      | Vinyl                    | Non-Cast         | 3                | L           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 4  | 2               | 3                   | 1                           | 1                  | •                           | •         | •            |                           |           | •           |
|                              |               |                     |                   |                      | Vinyl                    | Non-Cast         | 3.2              | M           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 4  | 2               | 3                   | 1                           | 1                  | •                           | •         | •            |                           |           | •           |
| •                            | •             |                     |                   |                      | Vinyl                    | Cast             | 2                | G           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 2, 4, Env  | 3               | 3                   | 1                           | 1                  | •                           | •         | •            |                           | •         |             |
| •                            | •             |                     |                   |                      | Vinyl                    | Cast             | 2                | L           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 2, 4, Env  | 3               | 2                   | 1                           | 2                  | •                           | •         | •            |                           |           | •           |
| •                            | •             |                     |                   |                      | Vinyl                    | Cast             | 2                | M           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 2, 4, Env  | 3               | 2                   | 1                           | 3                  | •                           | •         | •            |                           |           | •           |
| •                            | •             |                     |                   |                      | Vinyl                    | Cast             | 2                | G           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 2, 4, Env  | 2               | 3                   | 1                           | 3                  | •                           | •         | •            |                           | •         |             |
| •                            | •             |                     | •                 | •                    | High Performance non-PVC | N/A              | 2                | G           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | Env  | 1               | 3                   | 1                           | 3                  | •                           | •         | •            |                           | •         |             |
| •                            | •             |                     | •                 | •                    | High Performance non-PVC | N/A              | 2                | L           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | Env  | 2               | 2                   | 4                           | 3                  | •                           | •         | •            |                           | •         |             |
| •                            | •             |                     | •                 | •                    | High Performance non-PVC | N/A              | 2                | M           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | Env  | 3               | 1                   | 4                           | 4                  | •                           | •         | •            |                           | •         |             |
|                              |               |                     |                   |                      | Vinyl                    | Cast             | 2.5-3.5          | M           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 2, 4   | 2               | 1                   | 4                           | 4                  | •                           | •         | •            |                           |           | •           |
| •                            | •             |                     |                   |                      | Vinyl                    | Cast             | 2                | G, L, M     | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 2, 4, 1080   | 2               | 1                   | 4                           | 4                  | •                           | •         | •            | •                         |           |             |
|                              |               |                     |                   |                      | Vinyl                    | Cast             | 2                | G           | Transparent  | Optically Clear | Pressure-Sensitive |                                      | •                                  | IJ8150 perf  | 2               | 1                   | 1                           | 3                  | •                           | •         | •            |                           | •         |             |
| •                            |               |                     |                   |                      | Vinyl                    | Cast             | 2                | UM          | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 2, 4   | 3               | 1                   | 1                           | 4                  | •                           | •         | •            |                           |           | •           |
|                              |               |                     |                   |                      | Polyester                | N/A              | 4                | G           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 2, 4   | 5               | 5                   | 3                           | 5                  | •                           |           | •            |                           | •         |             |
|                              |               |                     |                   |                      | Polyester                | N/A              | 4                | G           | Transparent  | Clear           | Pressure-Sensitive |                                      | •                                  | 2, 4   | 5               | 5                   | 3                           | 5                  | •                           |           | •            |                           | •         |             |
|                              |               |                     |                   |                      | Polyester                | N/A              | 2                | G           | Transparent  | Clear           | Pressure-Sensitive | •                                    |                                    | 2, 4   | 5               | 5                   | 5                           | 3                  | •                           |           | •            |                           | •         |             |
|                              |               |                     |                   |                      | N/A                      | N/A              | N/A              | G           | Transparent  | N/A             | N/A                |                                      | •                                  | 2, 4   | 1               | 1                   | 1                           | 1                  | •                           | •         |              |                           |           |             |
|                              |               |                     |                   |                      | N/A                      | N/A              | N/A              | G           | Transparent  | N/A             | N/A                |                                      | •                                  | 2, 4   | 1               | 1                   | 1                           | 1                  | •                           | •         |              |                           |           |             |

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