



## Work Zone & Permanent Signing

3M™ pioneered the development of retroreflective sheeting over 70 years ago, and continues to be the leader meeting the changing visual requirements of motorists of all ages in today's complex and demanding roadway environment. 3M has a complete line of work zone products for the production of high-quality, durable, temporary traffic control signs, devices, and temporary pavement markings. These products have the reflectivity, angularity and durability to meet virtually any construction work zone need. 3M's high performance sheetings for rigid signs, barricades, and devices are designed to clearly

identify potentially dangerous situations and withstand the rough handling typical of work zone construction. In addition to the work zone products 3M offers a full line of permanent and temporary reflective sheeting for high-quality guidance signs, traffic control and delineation devices.

3M™ also offers a full line of durable, highly reflective pavement markings, RPMs, and application equipment for all types of permanent and temporary roadway marking applications. Designed to guide drivers clearly at night as well as in daytime. For more information on pavement markings see pages 61-63.

## Graphic Films

### Electronically Cut Films

The low-flow adhesive on these opaque or translucent graphic films make them perfect for precise electronic cutting of letters, numbers and other shapes. Use them in backlit or front lit rigid and flexible sign graphics & many special effects.

### Reflective Films

These enclosed lens retroreflective films have excellent angularity, similar daytime & nighttime appearance, and retain most of their retroreflection when wet. Available with pressure-sensitive or pressure-activated adhesive, many of these films are conformable and/or removable. Use for fleet graphics or signs that require superior visibility & performance.

### Screen Printing Films

These films are designed for screen printing with solvent and/or UV cured inks. The portfolio includes a wide variety of opaque, translucent and reflective films with pressure-sensitive or pressure-activated adhesive to meet all of your graphic needs.



### Work Zone

For more information on Work Zone signing and materials see pages 68-73.



## Roll-Up Sign Materials

### 3M™ Diamond Grade™ Roll-Up Sign Sheeting - RS20 Series

3M Diamond Grade Roll Up Sign Sheeting Series RS20 is a highly visible prismatic lens reflective sheeting designed for the production of roll up signs that are typically used in construction work zones. The prismatic/fluorescent technology provides a much higher brightness than conventional glass beads day or night and exceeds specification ASTM D 4956-04, Type IX for reflectivity. Series RS20 is backed with a strong, flexible gray coated fabric. When assembled with cross braces it has the same appearance as a rigid sign. It is designed to accept

the sewing or riveting of corner pockets. RS20 has such wide angular performance it functions at angles that no other sheeting can provide. The sign legend can be applied by screen printing using 3M process colors. When the assembled sign is not in use it can be rolled up for compact storage. RS20 series has a three year warranty and is available in sheets or rolls. RS20 series is the superior choice in maximizing portable work zone safety. Meets or exceeds all state specifications and is at the top of the list on most every State QPL.



Available in:

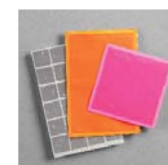
- White - RS20
- Fluorescent Orange - RS24

For available roll and sheet sizes please contact our customer service representatives at 1.800.296.6050 or [korman@kormansigns.com](mailto:korman@kormansigns.com).

### 3M™ Vinyl Roll-Up Sign Sheeting - RS30 Series

3M Vinyl Roll Up Sign Sheeting Series RS30 consists of retroreflective microprisms formed on a glossy and UV-stabilized polymeric film. It is designed for the production of roll up traffic signs used in work zones and emergency traffic control. This sign sheeting provides a compact, lightweight concept that meets specification ASTM D 4956-04, Type VI. Series RS30 is backed with

a heavy duty vinyl coated fabric. When assembled with cross braces it has the same appearance as a rigid sign. It is designed to accept the sewing or riveting of corner pockets. The sign legend can be applied by screen printing using 3M process colors. When the assembled sign is not in use it can be rolled up for storage. Meets many State specifications.



Available in:

- White - RS30
- Fluorescent Orange - RS34
- Fluorescent Pink - RS33

For available sheet sizes please contact our customer service representatives toll-free at 1.800.296.6050 or [korman@kormansigns.com](mailto:korman@kormansigns.com).



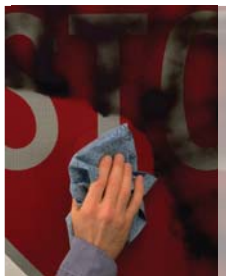
# Reflective Sheeting

# Reflective Sheeting

3M™ offers a full line of permanent and temporary reflective sheeting for high-quality traffic control, guidance signs and delineation devices. 3M pioneered the development of retroreflective sheeting over 70 years ago, and continues to be the leader in meeting the changing visual requirements of motorists of all ages in today's complex and demanding roadway environment.

### 3M™ Overlay Film

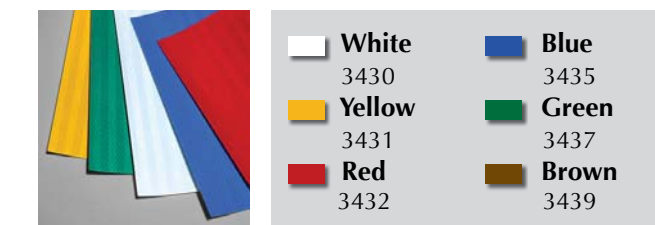
Protect your signs from vandals with 3M™ Overlay Film. This flexible, durable laminate can be used with a variety of 3M reflective sheetings and graphic films for exterior/interior graphics.



Nighttime comparison of Engineer Grade (Type I), High Intensity Prismatic (Type III/IV) and DG3 (Type XI) Reflective Sheeting.

### 3M™ Engineer Grade Prismatic Reflective Sheeting

3M Engineer Grade Prismatic (EGP) Reflective Sheeting Series 3430 meets minimum specification ASTM D4956 Type I. EGP is a prismatic lens retroreflective sheeting designed for the production of reflective commercial signs, non-critical traffic signs, and some limited regulatory traffic applications as long as they are mounted vertically in service. EGP comes with pressure sensitive adhesive in a variety of colors and provides expected durability of 5-7 years when processed with the 3M Matched Component System™ inks & films and applied properly on an aluminum or ALPOLIC® substrate. Subject to shorter life cycle than DG3 and HIP.



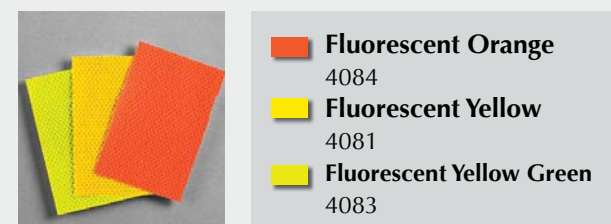
## Permanent Signing Materials

### 3M™ Diamond Grade™ DG3 Reflective Sheeting

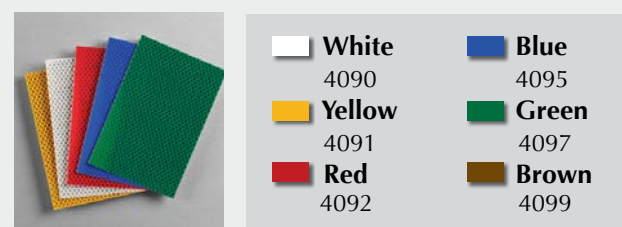
3M Diamond Grade DG3 Series 4000 Reflective Sheeting is a state of the art super high efficiency, full cube prismatic, retroreflective sheeting designed for the production of traffic signs that are exposed vertically in service. DG3 not only provides the highest retroreflective performance to be encountered by the driving public but also provides a published durability warranty of 12 years. Even the most disadvantaged or complex location will be highly visible using this material. It exceeds ASTM D4956 Type XI specifications. Series 4000 delivers optimal performance where drivers need it most and coupled with the long durability makes DG3 a worthy investment from both a safety and life cycle financial perspective. Matched components for screen printing and fabrication are readily available. Available in various widths in sheets or 50 yard rolls. No other material can match the performance and safety of Diamond Grade DG3 Reflective Sheeting.

### 3M™ Diamond Grade™ DG3 Fluorescent Reflective Sheeting

Diamond Grade fluorescent, reflective sheetings use prismatic and fluorescent technology to provide excellent visibility in any condition. DG3 combines the impact of fluorescent color for daytime driving with high reflectivity, adding increased visibility at night. DG3 meets ASTM D4956-09, Type III and IV.



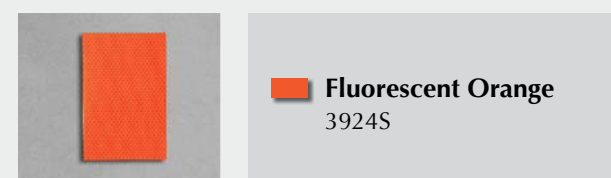
- State-of-the-art "full cube" prismatic technology
- 100 percent efficient optical elements, returning 60% of available light
- Delivers optimal performance where and when drivers need it most



ROLLS		
¾" x 50 yds.	9" x 50 yds.	30" x 50 yds.
1" x 50 yds.	12" x 50 yds.	36" x 50 yds.
2" x 50 yds.	12¾" x 50 yds.	48" x 50 yds.
3" x 50 yds.	18" x 50 yds.	
6" x 50 yds.	24" x 50 yds.	

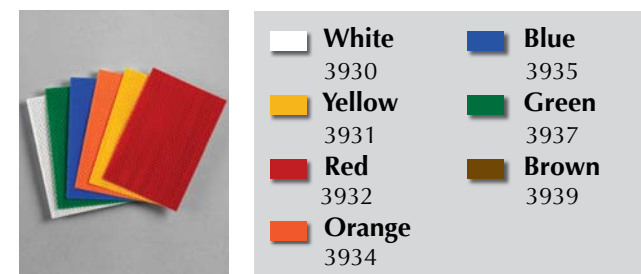
### 3M™ Diamond Grade™ Fluorescent Work Zone Sheeting

Fluorescent orange, microprismatic, reflective sheeting with pressure sensitive adhesive for the production of high quality work zone signs. Exceeds ASTM D4956-09 Spec Type VII, and ASTM D4956-07 Type VIII and Type X specifications.



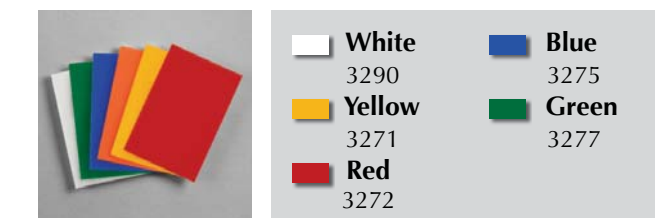
### 3M™ High Intensity Prismatic Sheeting

3M High Intensity Prismatic (HIP) Sheeting Series 3930 is a non-metalized, microprismatic lens reflective sheeting designed for production of durable reflective traffic control signs, work zone devices and delineators exposed vertically. Series 3930 provides long-term reflectivity and durability, with an improved optical package to increase nighttime safety. Its unique prismatic construction provides a high level of retroreflectivity for multiple traffic control situations. Meets both ASTM D4956-09 Type III, Type IV, and ASTM D4956-07 Type X specifications.



### 3M™ Engineer Grade Reflective Sheeting

Engineer Grade (EG) is an enclosed lens sheeting with pressure sensitive adhesive designed for commercial and non-critical signing applications. Meets ASTM D4956 Spec Type I, Class 1.



3M Engineer Grade, Engineer Grade Prismatic and High Intensity Prismatic Sheeting available in the following roll sizes:

ROLLS		
½" x 50 yds.	6" x 50 yds.	18" x 50 yds.
¾" x 50 yds.	6¾" x 50 yds.	24" x 50 yds.
1" x 50 yds.	8" x 50 yds.	30" x 50 yds.
1¼" x 50 yds.	9" x 50 yds.	36" x 50 yds.
2" x 50 yds.	12" x 50 yds.	42" x 50 yds.
3" x 50 yds.	12¾" x 50 yds.	48" x 50 yds.
4" x 50 yds.	15" x 50 yds.	

### 3M™ ElectroCut™ Film

ElectroCut Film is a transparent, acrylic, colored film used for application over 3M Reflective Sheeting to produce durable sign backgrounds, copy, and logos with a pressure sensitive adhesive. Available in 50 yard rolls in the following widths: 9", 12", 15", 18", 24", 30", 36" and 48".



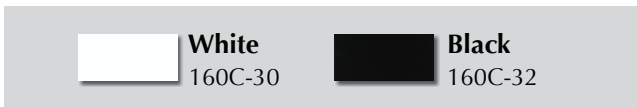


3M™ offers the most comprehensive line of flexible, durable and promotional films on the market. Both permanent and removable films are available in opaque, clear, translucent and reflective as well as dozens of colors. Most feature pressure sensitive or pressure activated adhesive and are used in the construction of indoor and outdoor large-format graphics around the world. For more information on the use of 3M Graphic Films in vehicle graphics see pages 64-67.



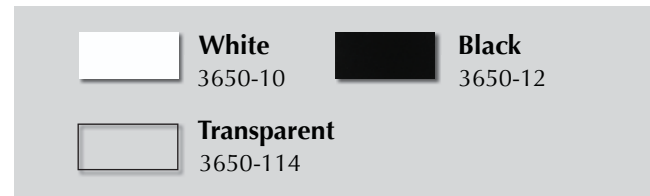
### 3M™ Controltac™ Graphic Film with Comply™ Adhesive 160C

Graphic Film Series 160C with Comply Adhesive is a 4-mil film which offers great versatility along with slideable, repositionable, pressure-activated adhesive, air release channels for fast and easy, bubble-free graphic installations. These long-term durable and removable films have excellent hiding power and stability, making them perfect for indoor and outdoor signs and fleet graphics.



### 3M™ Scotchcal™ Graphic Film Series 3650

Graphic Film Series 3650 is a 2 mil film used to screen print permanent, interior or exterior graphics. The film has pressure-sensitive adhesive, resists gasoline vapors and occasional petroleum spills, and is available in transparent, white or black. Applications include graphics for vehicles, windows, signs and more.



### 3M™ Scotchlite™ Series 680 & 680CR

Reflective Graphic Film Series 680 is a durable, flexible, enclosed-lens, retroreflective film used to make permanent, multi color commercial signs, striping, vehicle or railroad graphics. These graphics have a similar daytime and nighttime appearance. The film has positionable, pressure-activated adhesive and a total thickness of .007 to .008 inches. Series 680CR is a removable film with Comply™ Adhesive.

*Color may vary from actual material due to the printing process. For color charts please contact KSI at 800.296.6050 or korman@kormansigns.com.*

### 3M™ Scotchcal™ ElectroCut Graphic Film Series 7125 & 7725

Graphic Film Series 7125/7725 is used for pre-spaced, cut graphics on electronically controlled, friction-fed or flatbed cutters for emblems, vehicles, labels, striping, signs, & two-way window markings. Transparent synthetic liner resists moisture absorption and static buildup; allows superior cutting/weeding. Pressure sensitive film adheres well to flat or simple curved surfaces. Series 7125 film has a paper liner.



### 3M™ Controltac™ Graphic Film with Comply™ Adhesive 180C

Graphic Film Series with Comply Adhesive Series 180C is a 2 mil, opaque film used to screen print large, long-term graphics. It has pressure-activated adhesive and 3M Comply™ Adhesive feature for easier installation of fleet graphics, signs, emblems and more. It is available in a variety of sizes in a wide selection of glossy & metallic colors or matte black.



3M Graphic Films are available in a variety of standard roll sizes. For additional 3M Sheetings see below:

5000	7720	3336
5100CR	1150	33340
7780CR	1160	3840
639	TPM-5	3910
3470	FCPM-3	3914
3630	SCPS- 2	CW80
3690	3334	Sign Dating Sticker

For more information regarding 3M Sheetings, colors and roll sizes please contact KSI at 1.800.296.6050 or korman@kormansigns.com.