3M Scotchlite[™] Photoelectric Grade Sheeting 7590

Technical Data			May, 200
Product Description 3M TM Scotchlite TM Photoelectric Grade Sheeting angle, smooth-surface, retroreflective sheeting, sphotoelectric applications such as retroreflective consists of special lens elements enclosed within smooth flat outer surface and is supplied with a leadhesive protected by a removable liner			g, specially designed for use in ive labels or marks. The sheeting thin a transparent resin, having a
Construction	Color	Lens Liner	
	Opaque white	Prote	ected Yes
Typical Physical Properties	Note: The following technical information and data should be considered representative or typical only, and should not be used for specification purposes.		
	Thickness	Applied: Liner:	.007 in. (.017 cm) .004 in. (.010 cm)
		-4° reading: ed 45° reading:	200X 80X
	Temperature Resistance Continu Intermittent expo	ous exposure: sure (30 min.):	200°F (93°C) 400°F (204°C)
Features	Sealed lens surface.	High adhesion	formula for low temperatures.
	Weatherable.Daylight visibility.Facilitates printing.Offers wet optical performance.Cleanability.	 Designed for strong uniform response of photoelectric devices up to 45° entrance angle. For indoor or outdoor use. Good choice for nautical uses. Multiple uses. For permanent installation. 	
Available Sizes	Widths:	1/2 in. (1.27 cm), 1 in. (2.54 cm), 2 in. (5.08 cm), 3 in. (7.62 cm), 4 in. (10.16 cm), 6 in. (15.24 cm)	
	Lengths:	50 yds. (45.7 m)	

$3M^{^{\text{\tiny TM}}} Scotchlite^{^{^{\text{\tiny TM}}}} \\ Photoelectric Grade Sheeting$

7590

Application Techniques

Automatic and manual dispensers are available to facilitate application of 3MTM ScotchliteTM Photoelectric Grade Sheeting 7590.

Application may be made at temperatures as low as 10°F (-12°C) to a clean and dry surface. The sheeting will remain serviceable for many years when properly applied to a suitable substrate and used in typical indoor or outdoor environments.

The sheeting maintains approximately 90% of its dry brightness with water falling on the surface (Rainfall Test Method of Federal Highway Administration Specification, FP-74, Section 718.01 [6]).

Use in high temperature environments (above 200°F [93°C]) for an extended period of time could permanently reduce retroreflective efficiency. Repeated freeze-thaw cycles may cause subtle but visible cracking of the reflective surface, which should not significantly affect performance. Extreme cracking will reduce the optical performance of the sheeting.

Storage Conditions

Store in a cool, dry area, preferably at 70-75°F (20-24°C) and 30-50% relative humidity, and horizontally in shipping carton. Avoid pressure from stacking.

Shelf Life

Product should be applied within one year after purchase.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com/packaging. Address correspondence to: 3M Industrial Adhesives and Tapes Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55144-1000. Our fax number is 651-778-4244. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

Important Notice

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Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.



This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



