3M Scotchlite[™] Photoelectric Grade Sheeting 7590

Technical Data			Ν	May, 2003
Product Description	3M TM Scotchlite TM Photoelectric Grade Sheeting 7590 is a durable, flexible, wide- angle, smooth-surface, retroreflective sheeting, specially designed for use in photoelectric applications such as retroreflective labels or marks. The sheeting consists of special lens elements enclosed within a transparent resin, having a smooth flat outer surface and is supplied with a low-temperature, pressure-sensitive adhesive protected by a removable liner			
Construction	Color	Lens		Liner
	Opaque white	Protected		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)	
	Typical Luminance Factor	-4° reading: d 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.Weatherable.	 High adhesion formula for low temperatures. Designed for strong uniform response of photoelectr devices up to 45° entrance angle. 		
	Daylight visibility.Facilitates printing.Offers wet optical	For indoor or outdoor use.Good choice for nautical uses.		
	performance.Cleanability.	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)		

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Automatic and manual dispensers are available to facilitate application of 3MTM **Application Techniques** Scotchlite[™] 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 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, Information 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. 3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY **Important Notice** IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's application. **Limitation of Remedies** 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. and Liability 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. ISO 9002 This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



Industrial Business Industrial Adhesives and Tapes Division 3M Center, Building 21-1W-10, 900 Bush Avenue St. Paul, MN 55144-1000



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