



Commercial Grade Reflective Sheeting Series 3200DP For Thermal Transfer Printing

Product Bulletin 3200DP

July 2013

Replaces Product Bulletin 3200DP dated September 2009

Description

3M™ Commercial Grade Reflective Sheeting Series 3200DP For Thermal Transfer Printing is a durable enclosed lens retroreflective sheeting suitable for the production of non-critical traffic signs and stickers using 3M™ Thermal Transfer Ribbons Series TTR2300. The sheeting will conform to the description included herein but 3M makes no general claims of conformance to any other reference specification.

Sheeting Colors: 3290DP White

3271DP Yellow

Adhesive: Pressure Sensitive

Adhesive Color: Clear

Sheeting Properties

Retroreflectance: The coefficient of retroreflection (RA), as measured per ASTM E810 and reported in candelas per lux per square meter or candelas per foot candle per square foot, of Series 3200DP prior to printing will typically conform to Table 1. These are not minimum values and should not, therefore, be used for specification purposes.

Table 1

Color	Typical RA at 0.2° observation and -4° entrance
White	50
Yellow	25

Color: Daytime color as measured in accordance with ASTM E308 will conform to the FHWA Standards for Retroreflective Sheeting in 23CFR655 Subpart F.

Application

Series 3200DP and aluminum substrates should be conditioned prior to application to provide a minimum temperature of 65°F (18°C) throughout the roll or sheeting stack. Series 3200DP will form a permanent bond to the surface of properly prepared aluminum — See Information Folder 1.7. Substrates other than aluminum are not recommended.

Series 3200DP comes with a clear, polyester top liner on the face of the sheeting that must be removed just prior to printing. Printing must be completed within one hour of removing the top liner.

Storage

Sheeting should be stored in its original package in a cool, dry area and should be used within six months of receipt.

Health and Safety Information	Read all health hazard, precautionary and first-aid statements found in the Material Safety Data Sheet (MSDS) and/or product label of chemicals prior to handling or use. Also refer to the MSDS for information about the volatile organic compound (VOC) content of chemical products. Consult local regulations and authorities for possible restrictions on product VOC content and/or VOC emissions. Electronically, visit us at www.3M.com/us and select MSDS search.
General Performance Considerations	While no warranty is provided, Series 3200DP is designed for multi-year outdoor applications. When sheeting is applied, processed, and used as recommended, signs or stickers should exhibit no significant peeling, chipping, cracking or fading for three to five years depending upon climate and geographic location.
Literature Reference	Product Bulletin TTR2300 Information Folder 1.7 3M™ Thermal Transfer Ribbons Series TTR2300 Sign Base Surface Preparation for 3M™ Reflective Sheeting Application

**FOR INFORMATION OR ASSISTANCE
CALL: 1-800-553-1380**

**IN CANADA CALL:
1-800-265-1840**

**Internet:
www.3M.com/roadwaysafety**

3M assumes no responsibility for any injury, loss or damage arising out of the use of a product that is not of our manufacture. Where reference is made in literature to a commercially available product, made by another manufacturer, it shall be the user's responsibility to ascertain the precautionary measures for its use outlined by the manufacturer.

Important Notice

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, or conditions express or implied. Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct, special or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his/her intended use, and user assumes all risk and liability whatsoever in connection therewith. Statements or recommendations not contained herein shall have no force or effect unless in an agreement signed by officers of seller and manufacturer.

3M is a trademark of 3M. Used under license in Canada.



Traffic Safety and Security Division
3M Center, Building 235-3A-09
St. Paul, MN 55144-1000
1-800-553-1380
www.3M.com/roadwaysafety

3M Canada Company
P.O. Box 5757
London, Ontario N6A 4T1

3M México, S.A. de C.V.
Av. Santa Fe No. 55
Col. Santa Fe, Del. Alvaro Obregón
México, D.F. 01210

Please recycle.
© 3M 2013. All rights reserved.