



Very High Gain Sheeting for Remote Sensing Applications

3000X

Product Bulletin 3000X

November 2006

Description

3M™ Very High Gain Sheeting 3000X is a micro-cube corner sheeting made of a flexible synthetic resin which will perform well with polarized light. The smooth, clear surface can be cleaned easily. 3000X sheeting has an aggressive pressure sensitive adhesive which provides an excellent bond to most clean, wax-free, dry, relatively non-porous, weather resistant surfaces. The adhesive is protected by a liner which is removed at the time of application and the reflector is pressed into position.

Product Features

- Specially designed micro-cube corner construction.
- Flexible synthetic resin construction.
- Pressure-sensitive acrylic adhesive backing.
- Impact resistant, low profile.

Product Advantages

- Maximum contrast per unit area.
- Typically 3,000 times brighter than a perfectly diffusing white surface.
- Can be hand or die-cut in shapes and sized to fit many applications.
- Easy to handle and apply to most clean surfaces.
- Can be used in high traffic zones with minimum surface obstruction.
- Readable at larger entrance angles (over 30° entrance).

Product Benefits

- Provides the desired signal at longer distances with polarized and laser controllers.
- Standard visible and infrared controllers can also be used.
- Allows greater system design flexibility per unit application.
- Saves time and reduces need for mechanical fasteners.
- Reduces cost and system downtime due to damaged reflectors.
- Improved signal with skewed containers or controllers.

Construction

<u>Product Number</u>	<u>Color</u>	<u>Lens</u>	<u>Liner</u>
3000X	White with linear pattern	Protected	Yes

Application

Remove oil, grease and/or dirt from the application surface through a solvent wipe with toluol, xylol, lacquer thinner, mineral spirits or VM&P naphtha. On lacquer surfaces, wipe with mineral spirits or heptane. After solvent wiping, dry the surface with a clean dry rag.

Cutting

The sheeting may be hand or die-cut, one sheet at a time or guillotined in stacks. Whenever two or more cut pieces are used, side by side, they must be matched to assure uniform brightness.

Typical Physical Properties

(Not recommended for specification purposes)

Retroreflective brightness varies with photo sensor geometry, retroreflector orientation and application. Performance in your application may be similar to the following typical values measured under standard conditions. Values stated in table are for measurements taken at observation angles of .1 or less.

Typical Luminance Factor*:	3000X
-4° reading:	3000X
Skewed 30° reading:	1500X

Applied Thickness:	.019"
Temperature Application Range:	50°F-100°F

*As compared to a diffuse white surface.

Product Availability

Product Number

3000X	1" x 25 yards	2.54 cm x 22.86 m
	2" x 25 yards	5.08 cm x 22.86 m
	3" x 25 yards	7.62 cm x 22.86 m

Custom widths and lengths are available upon request.

Cleaning

Sheeting that requires cleaning after use should be flushed with water than washed with a mild detergent solution and soft bristle brush or sponge. Avoid pressure which may scratch the surface. Flush with water following washing. **Do not use solvents** to clean the sheeting surface.

Health and Safety Information

Read all health hazard, precautionary, and first aid statements found in the Material Safety Data Sheet and/or product label of chemicals prior to handling or use.

Storage Conditions

3000x sheeting should be stored in a cool, dry area, preferably at 65-75°F (18-24°C) and 30-50% relative humidity, and should be applied within one year after purchase. Do not allow sheeting or finished applications to become wet in shipment or storage. If they become wet, immediately unpack and air dry.

FOR INFORMATION OR ASSISTANCE

**CALL:
1-800-553-1380**

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

**Fax-on-Demand in the U.S. and Canada:
1-800-887-3238**

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

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