

3M™ Scotchlite™

Reflective Material Technical Update

Internal Use Only

Topic: Thinner vinyl (PVC) film used in High Gloss Series.

Date: May 2003

Products Affected:

- 3M™ Scotchlite™ Reflective Material – Series 6100 High Gloss Trim
- 3M™ Scotchlite™ Reflective Material – Series 6100R High Gloss Trim
- 3M™ Scotchlite™ Reflective Material – Series 6200 High Gloss Film
- 3M™ Scotchlite™ Reflective Material – Series 6300 High Gloss Smooth Trim
- 3M™ Scotchlite™ Reflective Material – Series 6500 High Gloss Sparkle Film
- 3M™ Scotchlite™ Reflective Material – Series 6600 High Gloss Panel and Chevron
- 3M™ Scotchlite™ Reflective Material – Series 6800 High Gloss PSA Film

Change:

The above high gloss products currently contain a 10 mil (.254 mm) vinyl top film upon which the reflective microprisms are attached. This 10 mil vinyl top film can be either clear or colored. We are replacing this 10 mil vinyl top film with a 7.25 mil (.184 mm) vinyl top film. Laboratory and customer testing has seen no significant differences in the durability and reflective performances between the 10 mil and 7.25 mil vinyl top films.

There are several reasons why we are changing to this thinner top film:

1. Cost reduction
2. The thinner film conforms better to garments.
3. A lighter weight film is preferred by many of our customers.

The changes that may be observed by our customers include:

- A “thinner” feel – The thinner vinyl top film is only one layer in the construction of a high gloss product. The number of construction layers varies by product. Many customers may not notice a difference in the overall thickness.

Typical Thickness of High Gloss Products

3M™ Scotchlite™ Reflective Material High Gloss Products	Overall thickness with the new 7.25 mil top film	Percent Change in overall thickness
Series 6200 w/o liner Series 6500 w/o liner	10.75 mil	- 20 %
Series 6100 Series 6300 Series 6600	20.75	- 12 %
Series 6100R	21.75	- 11 %
Series 6800 w/o liners	13.75	- 17 %

- Smaller roll diameter – The new rolls using the 7.25 mil film will have a smaller diameter than the rolls using the 10 mil film. The difference in roll diameter is not an error in yardage.

When:

This change will begin by mid-June 2003. The thinner film will be substituted as the high gloss products are depleted. The approximate dates you will see this change occur on specific products are:

3M™ Scotchlite™ Reflective Material High Gloss Products	Colors	Expected Changeover Date
6100,6100R, 6200, 6300	White, Fl. lime-yellow, Orange	June/July
6100, 6200, 6300	Fl red-orange, blue	4 th quarter 2003
6600	All colors	4 th quarter 2003
6500, 6600, 6800	All colors	mid to late 2004

Important Notice to User

LIMITED WARRANTY: In the event any Thinsulate™ Insulation, 3M™ Greptile™ Gripping Material, or 3M™ Scotchlite™ Reflective Material is found to be defective in material, workmanship, or not in conformation with any express warranty, 3M's only obligation and your exclusive remedy shall be to replace or refund the purchase price, at 3M's option, of such product upon timely notification thereof and substantiation that the product has been stored, maintained and used in accordance with 3M's written instructions.

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LIMITATION OF LIABILITY: Except as provided above, 3M shall not be liable in contract or tort for any loss or damage, whether direct, indirect, incidental, special or consequential, (including, without limitation, lost profits, goodwill and business opportunity) arising out of the sale, use or misuse of the product, or the user's inability to use the product. **THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE.**

Because of the unlimited variety of potential applications for these products, BEFORE production use, the user (which may be a product designer, product specifier, converter or end product manufacturer or others) must determine that the Products are suitable for the intended use and are compatible with other component materials. User is solely responsible for determining the proper amount and placement of Products. While reflective products enhance visibility, no reflective product can ensure visibility or safety under all possible conditions.

3M may change the product, specifications and availability of the product as improvements are made; therefore, user should contact 3M for latest information before specifying the product. Thinsulate insulation is made within strict dimensional specifications. However, it is possible for the rolls to shift, shrink, or otherwise change dimensions to a maximum of ± 4% during handling or shipment.

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