

Technical Bulletin

3M™ Scotchlite™ Reflective Material

Topic

Plasticizer migration in 3M™ Scotchlite™ Reflective Material – 8710 Silver Transfer Film and Related Products.

Products Affected

- 3M™ Scotchlite™ Reflective Material – 8705 Silver Transfer Film Trim
- 3M™ Scotchlite™ Reflective Material – 8710 Silver Transfer Film
- 3M™ Scotchlite™ Reflective Material – 8711 Silver Graphic-Ready Transfer Film
- 3M™ Scotchlite™ Reflective Material – 8725 Silver Transfer Film
- 3M™ Scotchlite™ Reflective Material – 8725 Silver Linerless Transfer Film
- 3M™ Scotchlite™ Reflective Material – 8730 Silver Transfer Film
- 3M™ Scotchlite™ Reflective Material – 8850 Silver Pressure Sensitive Adhesive Film
- 3M™ Scotchlite™ Reflective Material – 8720 Silver Footwear Film

Background

Scotchlite reflective material – 8710 silver transfer film and the related products in the list above may not be compatible with some polyvinyl chloride (PVC, vinyl) films. Certain PVC films containing phosphate plasticizers at a specific level can make the reflective surface of the above 3M™ Scotchlite™ Reflective Material products soft and sticky. This can become a problem when a garment is folded and stored in a warehouse. This migration is accelerated when exposed to heat (i.e. during storage or transportation).

Although plasticizer migration is common when working with PVC films, this issue has only been seen in PVC garments containing phosphate plasticizers. Phosphate plasticizers are commonly used in flame resistant PVC garments. We want to emphasize that our ongoing recommendation is that substrates be tested prior to production to ensure that the customer needs are fulfilled.

Recommended Product Choices

We recommend the following Scotchlite reflective material when using fabrics showing this issue:

3M™ Scotchlite™ Reflective Material	
Product Category	Recommended Products*
Transfer Film	3M™ Scotchlite™ Reflective Material – 8726 Silver Transfer Film 3M™ Scotchlite™ Reflective Material – 9720 Silver Industrial Wash Transfer Film
Fabrics & Trims	All products
Prismatic	3M™ Scotchlite™ Reflective Material – Series 6100R High Gloss Trim 3M™ Scotchlite™ Reflective Material – Series 7100 High Gloss Trim 3M™ Scotchlite™ Reflective Material – Series 6200R High Gloss Film 3M™ Scotchlite™ Reflective Material – Series 6600R High Gloss Chevron

*Refer to the Technical Data Sheet for any specific needs (i.e. flame resistance).

Quality Control

3M™ Scotchlite™ Reflective Material is used in many different global applications. While it is our goal to have our product specifications represent our customers' key requirements at the time of design, it may not always be possible to anticipate every potential application.

Since some customers may detect small variations, depending on their applications and experience with the products affected, 3M recommends that each customer, in accordance with good manufacturing practices, establish an ongoing quality system. Customers should determine what their requirements are, what test methods to use, and then implement continuous testing throughout their production and on their finished garments.

Important Notice to User

LIMITED WARRANTY: In the event any 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.

EXCLUSIONS TO WARRANTY: THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OR CONDITION OF QUALITY, EXCEPT OF TITLE AND AGAINST PATENT INFRINGEMENT.

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.



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