



Scotchcal™ Matte Overlaminates 8909

Description

Use 3M™ Scotchcal™ Matte Overlaminates 8909, which features 3M's e-film technology, to protect both indoor and outdoor short-term graphics (except banners and most fleet graphics) where a matte gloss is desired. A matte gloss reduces glare from lights. It can be used with selected electrostatic and piezo ink jet films.

Recommended Types of End Uses

When constructed and used as described in this bulletin, these types of end uses may be warranted by the 3M™ MCS™ Warranty. Please read the entire bulletin for details.

- Protection for both indoor and outdoor sign graphics
- Change or reduce the gloss of a graphic

Limitations of End Uses

Observe the Limitations of End Uses given in the product bulletin for the 3M film or media to which this overlaminates is applied.

Unsuitable End Uses for This Overlaminates

- Application to:
 - exterior banner material
 - vinyl base film used to make fleet, truck or vehicle graphics
 - any 3M™ Scotchlite™ Graphic Film
 - any non-3M film
 - graphics intended for corrugated substrates
- Printing on the overlaminates
- Premasked graphics that are subjected to heat
- Graphics subjected to gasoline vapors or spills such as gas pumps, automobile fuel-tank ports, or top-feeding, petroleum tankers.

Compatible Products

- Most 3M brand electrostatic and piezo ink jet graphic material. Please refer to the Product Bulletin for the base film or substrate to determine compatibility.
- 3M™ Premasking Tape SCPM-3, when needed.

Characteristics

All values given are typical for unprocessed film unless noted otherwise and are not for use in specifications. Processing film may change certain values. If you have questions about your construction, contact the Technical Service helpline at 1-800-328-3908.

Physical Characteristics

Characteristic	Value
Material	Polyolefin
Color	Clear
Gloss	Matte
Thickness	Without adhesive: 2.5 mil (0.064 mm) With adhesive: 3.0 mil (0.076 mm) nominal
Adhesive type	Pressure sensitive
Adhesive color	Clear
Liner	Kraft paper liner
Flammability	Check the Product Bulletin for the base film/media you are using. If more information is needed, please contact us at 1-800-328-3098.
Tensile strength (minimum)	5 pounds/inch at 73°F (89 cm/kg at 23°C)
Applied shrinkage	0.0001 inch (0.0025 mm)
Service temperature range	-40° to +150°F (-40° to +66°C)

Application Characteristics

Characteristic	Description
Application substrates	Approved 3M graphic films or flexible substrates
Application topography	Flat, with or without rivets, mild compound curves
Lamination temperature range	50° to 90°F (10° to 32°C) <i>air, overlaminates and film</i>
Removability	Permanent, not removable

Note: For the full product names of the 3M products listed on this page, please see page 1.

Graphic Performance Life

Warranted Durability

Refer to the Product Bulletin for the base film or substrate used in your graphic construction for warranty details.

Warranty and Limited Remedy

The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: This overlaminate is warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in this Product Bulletin. 3M will replace or refund the price of any 3M materials that do not meet this warranty within the specified time periods. See the worldwide 3M™ MCS™ Warranty (www.Scotchprint.com or Fax-on-Demand), which gives the terms and limitations of the warranty.

These remedies are exclusive. In no case shall 3M be liable for any direct, indirect or consequential damages, including any labor or non-3M material charges.

Lamination

Apply by the squeeze roll method, which uses no heat. Both heat and tension can cause the overlaminate to curl. Observe the Lamination temperature range discussed on page 2. Refer to Instruction Bulletin 4.22 lamination procedures

Do not over stretch the film; excessive stretching causes the overlaminate to appear white.

Cutting

The common cutting methods for films protected with this overlaminate are hand cutting and cold and hot steel-rule die cutting. Refer to Instruction Bulletin 4.1 for more details.

Application Tape

Application tape is not required for most graphics with this overlaminate. Refer to Instruction Bulletin 4.3 for more details.

Note: Do not apply heat to the graphic until the premasking tape is removed. If the overlaminate is heated while applying rivets, the overlaminate will lose gloss. Excessive heat will cause the overlaminate to curl.

Maintenance and Cleaning

Use a cleaner such as the kind used for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents or alcohol, and have a pH value between 3.0 and 11.0 (neither strongly acidic nor strongly alkaline).

Shelf Life, Storage, and Shipping

Activity	Recommendation
Shelf life	Total shelf life: 2 years Up to 2 years unprocessed, OR Up to 1 year processed and applied within 1 year of processing
Storage conditions	<ul style="list-style-type: none">• 100°F (38°C) maximum• Out of sunlight• Clean dry area• Original container
Shipping finished graphics	Flat, or rolled printed side out on 5 inch (13 cm) or larger core; processed film may block if wound too tightly

See Instruction Bulletin 6.5 for details.

Health and Safety

Caution

When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations.
- Electronically, visit us at <http://www.3M.com>, then select MSDS search.
- By mail, or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturers' instructions for safe operation.

Attention:
Authorized Graphics Manufacturers

Visit our password-protected website for exclusive product information, profiles and services. Certain restrictions apply.

1. Go to www.scotchprint.com.
 2. Select a country.
 3. Click *Login* on upper left side of screen.
 4. Click Register.
 5. Enter authorization code: **CGD_SGN**.
 6. Complete the information and submit.
An e-mail will be sent when your authorization is completed.
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3M Related Literature

Before starting any job, be sure you have the most current product and instruction bulletins.

The information in 3M bulletins is subject to change. Current bulletins, as well as a list of all bulletins updated within the last three months, are available at www.scotchprint.com or through our Fax-on-Demand system. Any warranty, if offered, is based on information in the bulletin that was current at the time you purchased the 3M products. The following bulletins provide the information and processes you need to properly make the graphics described in this bulletin.

Fax-on-Demand phone numbers:
United States or Canada: 1-800-364-0768
International: 1-651-732-6506

Subject	Bulletin No.	FOD No.
Product Bulletins		
Films and sheetings Order an index from the Fax-on-Demand system to identify the FOD No. for the film or sheeting bulletins you need.		
Instruction Bulletins		
Cold roll lamination	4.22	6522
Storage, handling, maintenance, removal	6.5	8505
Warranties		
Worldwide 3M™ MCS™ Warranty		9503

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Bulletin Change Summary

3M™ Wear Coat and Image Transfer Media 8604 ES and 8605 ES have been discontinued. Changed description of 8909 from “e-film” to polyolefin film. Be sure to check base film/substrate bulletin to ensure compatibility and to determine warranties.



Commercial Graphics Division

3M Center, Building 220-12E-04
PO Box 33220
St. Paul, MN 55144-3220 USA
General Info. 1-800-374-6772
Technical Info. 1-800-328-3908
Fax 1-651-736-4233

Fax-on-Demand 1-800-364-0768 US/Canada or 1-651-732-6506 International
Fax-on-Demand document: 3565
www.scotchprint.com

3M Canada

P.O. Box 5757
London, Ontario
Canada N6A 4T1
1-800-265-1840
Fax 519-452-6245

3M México, S.A. de C.V.

Av. Santa Fe No. 55
Col. Santa Fe, Del. Alvaro Obregón
México, D.F. 01210
52-55-52-70-04-00
Fax 52-55-52-70-22-77

3M Puerto Rico, Inc.

Puerto Rico Industrial Park
P.O. Box 100
Carolina, PR 00986-0100
787-620-3000
Fax 787-750-3035