



Scotchcal™

Luster Overlaminates 8519 and Matte Overlaminates 8520

Description

3M™ Scotchcal™ Luster Overlaminates 8519 and Matte Overlaminates 8520 are 2-mil films that provide additional ultraviolet and durable physical protection for selected graphic constructions. It is designed for cold roll lamination only.

Note: These overlaminates directly replace 3M™ Scotchcal™ Luster Overlaminates 8910 and Matte Overlaminates 8911 with no change in use, application, durability or warranty for any construction already recommended in current 3M base film bulletins.

Recommended End Uses

Overlaminates 8519 and 8520 are intended for providing graphic protection to all digitally imaged graphics made with 3M graphic films when made with the listed Compatible Products according to 3M's written instructions.

Characteristics

Characteristic	Description
Color	Clear
Gloss	8519: Luster 8520: Matte
Adhesive	Pressure sensitive, clear
Liner	78 pound paper
Thickness	2 mil (0.05 mm) <i>without adhesive</i> 3–4 mil (0.08 to 0.10 mm) <i>with adhesive</i>
Tensile strength (minimum)	5 pounds/inch at 73°F (0.9 kg/cm at 23°C)
Dimensional stability	0.015 inch (0.4 mm)

Characteristic	Description
Service temperature range	-65° to +225° F (-54° to +107° C)
Chemical resistance	<ul style="list-style-type: none"> Resists mild alkalis, mild acids and salt Excellent resistance to water Resists petroleum vapors

Graphic Performance Life

Refer to the base film's Product Bulletin for warranty information and limitations.

Fabrication

Apply these overlaminates with cold roll lamination according to the laminator manufacturer's recommendations.

Shelf Life, Storage, and Shipping

Activity	Recommendation
Shelf life	Total shelf life: 2 years Up to 2 years unprocessed, OR process within 1 year and apply within 1 year of processing
Storage conditions	<ul style="list-style-type: none"> 86°F (30°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; this helps prevent the liner and premasking tape from wrinkling or popping off

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/MSDS>.
- 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.

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: 3M™ Scotchcal™ Luster Overlaminates 8519 and 3M™ Scotchcal™ Matte Overlaminates 8520 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 bulletin, 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 materials charges.

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 Please visit our website or all our Faxon Demand system to identify and order the film bulletins you need.		
Instruction Bulletins		
Cold roll lamination	4.22	6522
Storage, handling, maintenance, removal	6.5	8505

Bulletin Change Summary

Overlaminates 8519 and 8520 have replaced overlaminates 8910 and 8911 in all applications where overlaminates 8910 or 8911 were previously recommended.



Graphics Market Center

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: 4524
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

8518 Gloss Overlaminates
8519 Luster Overlaminates
8520 Matte Overlaminates
8914 Optically Clear Overlaminates
8915 Ultra-Matte Overlaminates
8528 Gloss Overlaminates

Quick Links

[3M Graphics Warranties](#)
[Technical Information Selector](#)
[Safety Data Sheets \(SDS\)](#)
[Flammability \(ASTM E84 Reports\)](#)
[Videos](#)

Some of these links lead to web-based resources that are not product-specific.

Product Description

- 8518, 8519, 8520: resists fuel vapors, highly conformable
- 8518: provides wet paint look
- 8914: optically clear primarily for perforated window graphic film to protect and prevent moisture and contaminant collecting in film perforations, conformable
- 8915: Ultra-matte reduces glare
- 8528: Superior UV protection, longer term vertical durability, horizontal warranty
- 8518, 8519, 8520, 8914, 8915: Expected performance life of 8 years (unwarranted period applied to a flat, vertical, outdoor surface)
- 8528: Expected performance life of 9 years (unwarranted period applied to a flat, vertical, outdoor surface)

Recommended Types of Graphics and End Uses

- 8518, 8519, 8520: Fleet/vehicle, vehicle wraps, watercraft, transit, labels, thermoformable, smooth walls
- 8518, 8914: Windows and glass
- 8915: Fleet/vehicle, vehicle wraps, watercraft, transit, signage, smooth walls
- 8528: Fleet/vehicle, vehicle wraps, transit, smooth walls, windows and glass

Characteristics

These are typical values for unprocessed product. Processing may change the values.

Performance Characteristics

Characteristic	Value
Material	Vinyl
Cast or non-Cast	Cast
Thickness	2 mils
Gloss	8518, 8914, 8528: Gloss 8519: Luster 8520: Matte 8915: Ultra-matte
Liner	8518, 8914, 8528: Polyester 8519, 8520, 8915: Kraft paper
Lamination Temperature	8518, 8914, 8528: 50 to +100 °F (10 to +38 °C) 8519, 8520, 8915: 60 to +100 °F (15 to +38 °C)
In Use Temperature Range	-65 to +225 °F (-54 to +107 °C)
Chemical Resistance	<ul style="list-style-type: none"> • Resists mild alkalis, mild acids, and salt • Excellent resistance to water (<i>does not include immersion</i>) • Resists occasional fuel spills



Characteristic	Value
Flammability	ASTM E84 reports: 8518 , 8519 , 8520 , and 8528 , or go to the On-line Product Catalog at 3Mgraphics.com All other test reports: call 1-800-328-3908

Warranty Information

All 3M graphic protection products are covered by the 3M Basic Product Warranty.

A warranty period may be offered based on the graphic construction and application details. Always refer to the 3M Product Bulletin for the 3M base film or flexible substrate you are using to determine if the graphic protection product you want to use is recommended and what, if any warranty period is offered.

IMPORTANT NOTE

Warranty information including limitations and exceptions and warranty periods for this product can be found at [3Mgraphics.com/warranties](#).

Warranty Coverage Overview

The warranty coverage for eligible graphics is based on the user both reading and following all applicable and current 3M Graphics Product and Instruction Bulletins. The warranty period for eligible graphics is as stated in the 3M Graphics Warranties Matrices at the time that the film was purchased. Information found at [3Mgraphics.com/warranties](#) includes:

- [3M Graphics Warranties Bulletin](#)
 - This bulletin contains information on limitations and exceptions, and warranty period reductions for 3M Graphics Warranties. The warranty period may be reduced and stipulations may apply for certain constructions and applications, and graphic exposures as covered in this Bulletin.
- [3M Graphics Warranties Selector](#)
 - Use this selector to search for your vertical warranty period by product number, ink type, and ink/printer platform.
- [U.S. Desert Southwest Region Map](#)
 - Use this map of hot, arid desert areas to determine if you are subject to reduced warranted durabilities.

The warranties set forth in this Bulletin are made in lieu of all other express or implied warranties, including any implied warranty of merchantability, fitness for a particular purpose, or arising out of a course of dealing, custom, or usage of trade.

3M Basic Product Warranty

3M Graphics Products are warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in its applicable 3M Graphics Product Bulletin and as further set forth in the [3M Graphics Warranties Bulletin](#).

Limited Remedy

The limited remedy applicable to each warranty is addressed in the 3M Graphics Warranties Bulletin found at [3MGraphics.com/warranties](#).

Limitation of Liability

Except to the extent prohibited by law, 3M SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO PURCHASER OR USER FOR ANY DIRECT (EXCEPT FOR THE LIMITED REMEDY PROVIDED HEREIN), INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LABOR, NON-3M MATERIAL CHARGES, LOSS OF PROFITS, REVENUE, BUSINESS, OPPORTUNITY, OR GOODWILL) RESULTING FROM OR IN ANY WAY RELATED TO 3M'S GRAPHICS PRODUCTS, SERVICES, OR THIS BULLETIN. This limitation of liability applies regardless of the legal or equitable theory under which such losses or damages are sought.

Warranty Period Matrices

See the 3M Graphics Warranties Matrices at 3MGraphics.com/warranties, for vertical warranty period information specific to your film.

Additional Limitations

See the 3M Graphics Warranties Bulletin at 3MGraphics.com/warranties, for terms, additional limitations of your warranty, if any, information on reduced warranties for different exposures, and limitations of liability.

Health and Safety



CAUTION

When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety and environmental information. To obtain SDS sheets for 3M products go to 3M.com/SDS, or 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.

Air Quality Regulations

State Volatile Organic Compound (VOC) regulations may prohibit the use of certain chemicals with VOC's in graphic arts coatings and printing operations. For example, the California South Coast Air Quality Management District prohibits use of certain solvent-based solutions without a permit and other California AQMD's prohibit use of certain solutions without a permit or regulatory exemption. Check with your State environmental authorities to determine whether use of this solution may be restricted or prohibited.

Factors that Affect Graphic Performance Life

The actual performance life of a graphic is affected by:

- the combinations of graphics materials used.
- complete ink drying or curing.
- selection, condition and preparation of the substrate.
- surface texture.
- application methods.
- angle and direction of sun exposure.
- environmental conditions.
- cleaning or maintenance methods.

Graphics Manufacturing



CAUTION

Before using any equipment, always read the manufacturer's instructions for safe operation.

Completely Dry Graphics



IMPORTANT NOTE

Incomplete drying can result in graphic failure including curling, increased shrinkage and adhesion failure, which are not covered under any 3M Graphic Warranty.

See the ink's 3M Product and Instruction Bulletin for more details.

Graphic Protection

Graphic protection may improve the appearance, performance and durability of the graphic. See the [3M Graphics Market Product Catalog](#), for more information.

Application Tapes

There are two types of application tapes. See [3M Instruction Bulletin AT-1](#) to determine what application tape is recommended for your film or finished graphic.

Premasking Tape

Increases stiffness during application while preventing stretching and damage. Use when little or no liner is exposed. See [3M Instruction Bulletin 4.3](#) for complete details.

Prespacing Tape

Holds cut and weeded letters or graphics in place during application and after removing the film liner, while preventing stretching and damage. Use when large amounts of liner are exposed. See [3M Instruction Bulletin 4.3](#) for complete details.

Application and Installation

In addition to other 3M Bulletins specified in this document, the following Bulletins provide details that you may need to successfully apply a graphic.

- [3M Instruction Bulletin 4.22](#). Lamination Basics for Inkjet Printed Graphics.
- [3M Instruction Bulletin 5.7](#). Application, Wet Method for Translucent, Inkjet, Screen Printed and Cut Graphics.

Maintenance and Cleaning

Use a cleaner designed for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline). See [3M Instruction Bulletin 6.5](#) for details.

Shelf Life, Storage and Shipping

Shelf Life

The shelf life is **never more than 3 years** from the date of manufacture on the original box.

If you process the film, the shelf life is changed to **1 year** from the processing date, but not later than the 3 year maximum from the manufacturing date.

Storage Conditions

- 40° to 100°F (4° to 38°C)
- Out of sunlight
- Clean, dry area
- Original container
- Bring the film to print room temperature before using

Shipping Finished Graphics

Flat, or rolled printed side out on 5 inch (13 cm) or larger core. This helps prevent the liner, and, if used, the application tape from popping off.

3M Commercial Solutions

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St. Paul, MN 55144-1000
1-800-328-3908
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3Mgraphics.com

3M Canada

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London, ON N6A 4T1
1-800-265-1840
Fax 519-452-6245

3M México S.A. de C.V.

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México D.F. 01210
General 5255-5270-0400
Fax 5255-5270-2277

3M Puerto Rico, Inc.

350 Chardon Avenue
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