

3M**Scotchcal™****Luster Overlamine 8519 and 8519CP and
Matte Overlamine 8520 and 8520CP****Description****Advantages**

- Provide additional UV (ultraviolet) and physical protection
- For use with thermal and piezo ink jet graphics
- Available in luster and matte gloss
- Adhesive allows for cold temperature lamination
- The designation CP on 3M™ Scotchcal™ Luster Overlamine 8519CP and 3M™ Scotchcal™ Matte Overlamine 8520CP means the product is designed for the Hewlett Packard DesignJet CP printers.

Applications and End Uses

Scotchcal luster overlamine 8519/8519CP and Scotchcal matte overlamine 8520/8520CP are durable, overlamines for use with most thermal ink jet and piezo ink jet graphic films. These types of applications are warranted by the 3M™ MCS™ Warranty.

- Required on all warranted thermal ink jet graphics. Refer to the base film Product Bulletin for details.
- Optional on most warranted piezo ink jet graphics. Refer to the base film Product Bulletin for details.

Limitations of End Uses

We do not normally warrant other applications, but please contact us to discuss your needs or let us suggest other 3M products.

Specifically, we do not warrant this film when used on:

- 3M™ Ink Jet Poster Paper 8580
- 3M™ Ink Jet Poster Paper With Restickable Adhesive 8581
- Graphics made for automotive Original Equipment Manufacturers (OEM); contact 3M Automotive Division at 1-800-328-1684, Ext. 444, for alternatives.

Compatible Products

Selected 3M graphic films designated for use with thermal ink jet or piezo ink jet printing. The following list is current as of July, 2000.

Thermal Ink Jet Products

- 3M™ Scotchcal™ Changeable Opaque Imaging Media 8522CP
- 3M™ Scotchcal™ Instant Dry Translucent Imaging Media 8544CP
- 3M™ Scotchcal™ Translucent Imaging Media 3637-20
- 3M™ Scotchcal™ Opaque Imaging Media 3657-10
- 3M™ Ink Jet Poster Paper 8580
- 3M™ Ink Jet Poster Paper With Restickable Adhesive 8581

Piezo Ink Jet Products

- 3M™ Controltac™ Plus Graphic Film 180-10 and RG180-10
- 3M™ Scotchlite™ Plus Flexible Reflective Sheeting 680-10 and RG680-10
- 3M™ Scotchcal™ Graphic Film RG3400
- 3M™ Scotchcal™ Changeable Graphic Film 3500 and RG3500
- 3M™ Scotchcal™ Graphic Film IJ3630-20 and RG3630-20
- 3M™ Scotchcal™ Graphic Film 3650-114 and RG3650-114

Product Line

Property	Description
Color	Clear
Thickness (film plus adhesive)	0.003 to 0.004 inch (0.08 to 0.10 mm)
Adhesive	Pressure sensitive, clear
Liner	78 pound paper
Gloss	8519/8519CP: Luster 8520/8520CP: Matte
Roll sizes	<p>8519CP and 8520CP 36 inches × 25 yards (92 cm × 22.5 m) 48.5 inches × 25 yards (123 cm × 22.5 m) 54 inches × 25 yards (137 cm × 22.5 m)</p> <p>8519 and 8520 These rolls are not splice free. 36 inches × 50 yards (92 cm × 45 m) 36 inches × 100 yards (92 cm × 90 m) 48.5 inches × 50 yards (123 cm × 45 m) 48.5 inches × 100 yards (123 cm × 90 m) 54 inches × 50 yards (137 cm × 45 m) 54 inches × 100 yards (137 cm × 90m)</p>

Effective Performance Life

Note: Some thermal ink jet finished graphics are not warranted for durability. Refer to the base film or paper product bulletin for details.

The effective performance life of 3M™ Scotchcal™ Luster Overlaminates 8519/8519CP and 3M™ Scotchcal™ Matte Overlaminates 8520/8520CP is based on field experience and exposure tests conducted throughout the United States. The actual performance depends on the:

- Piezo ink jet graphics: Manufactured by a 3M Scotchprint® Graphics Authorized Manufacturer
- Thermal ink jet graphics: Manufactured by a 3M Thermal Ink Jet Registered Fabricator.
- Correct combination of film or sheeting and inks
- Selection and preparation of the substrate
- Application methods
- Use on vertical surfaces (90°+/- 10°)
- Cleaning and maintenance methods
- Exposure conditions

Warranted Durability

Some graphics have a graphics warranty, while others are warranted for product only. For specific warranted durability, refer to the Product Bulletin for the film or sheeting you are using. See 3M Related Literature at the end of this bulletin.

Fabrication

These overlaminates, which have a pressure sensitive adhesive, can be cold roll applied. Refer to the instructions provided by the manufacturer for your laminator and the 3M Related Literature section for further information.

Application Tape

The type of application tape to use depends on the type of graphic produced and the ink, overlaminate or overprint clear that was applied last.

- To determine the appropriate application tape to use, refer to the Product Bulletin for the film or sheeting you are using
- For instructions on how to use application tape, see Instruction Bulletin 4.3 for details.

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).

Note: Graphics damaged by improper cleaning are not covered by the 3M warranty.

Shelf Life, Storage, and Shipping

- Store the overlaminate in a clean, dry area, away from direct sunlight, and at an ambient temperature less than 86°F (30°C).
- Unprocessed film has a shelf life of 2 years after receipt from 3M. Processed film has a shelf life of 1 year. However, the total shelf life of a graphic before and after processing cannot exceed 2 years.

Health and Safety

 Caution
<p>When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.</p> <p>To obtain MSDS sheets for 3M products:</p> <ul style="list-style-type: none"> • 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. <p>When using any equipment, always follow the manufacturers' instructions for safe operation.</p>

Product Data

Physical Properties

Property	English Units	Metric Units
Tensile strength (minimum)	5 pounds/inch at 73°F	0.9 kg/cm at 23°C
Dimensional stability	0.015 inch	0.4 mm
Service temperature range	-65° to +225° F	-54° to +107° C
Impact resistance	40° to 73° F: no effect	4° to 23°C: no effect

Chemical Resistance

- Resists mild alkalis, mild acids and salt
- Excellent resistance to water
- Resists petroleum vapors

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 Overlamine 8519/8519CP and 3M™ Scotchcal™ Matte Overlamine 8520/8520CP 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

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our website at www.3M.com/US/graphicarts, or order them via our Fax-on-Demand (FOD) system. Call one of these phone numbers to order the desired bulletins, and specify the FOD document number provided in the chart.

United States or Canada: 1-800-364-0768

International: 1-651-732-0106

Subject	Bulletin No.	FOD No.
Product Bulletins		
3M™ Controltac™ Plus Graphic Film Series 180	180	1005
3M™ Scotchlite™ Plus Flexible Reflective Sheeting Series 680	680	2007
3M™ Scotchcal™ Changeable Film Series 3500	3500	1506
3M™ Scotchcal™ Graphic Film Series 3650	3650	1509
3M™ Scotchcal™ Translucent Film Series 3630	3630	3009
3M™ Scotchcal™ Imaging Media 3657-10/3637-20	3637-20	4503
3M™ Controltac™ Plus Graphic Film RG180-10	RG180-10	4518
3M™ Scotchcal™ Graphic Film RG3400	RG3400	4516
3M™ Scotchcal™ Changeable Film RG3500	RG3500	4521
3M™ Scotchcal™ Translucent Film RG3630-20	RG3630-20	4520
3M™ Scotchcal™ Graphic Film RG3650-114	RG3650-114	4519
3M™ Scotchcal™ Changeable Opaque Imaging Media 8522CP	8522CP	4506
3M™ Scotchcal™ Instant Dry Translucent Imaging Media 8544CP	8544CP	4509
3M™ Ink Jet Poster Paper 8580	8580	4511
3M™ Ink Jet Poster Paper With Restickable Adhesive 8581	8581	4510
Instruction Bulletins		
Making thermal ink jet interior graphics (3M products)	4.14	6514
Making thermal ink jet weatherable graphics (3M products)	4.18	6518
Making thermal ink jet weatherable graphics (CP products)	4.23	6523
Making backlit signs with graphic films RG3630-20 and RG3650-114	4.26	6526
Cold roll lamination	4.22	6522
Storage, handling, maintenance, removal	6.5	8505
Warranties		
Worldwide 3M™ MCS™ Warranty Packet (includes all Commercial Graphics MCS Warranties)		9503
Worldwide 3M™ MCS™ Warranty Overview-Folder		9504



Commercial Graphics Division

3M Center, Building 220-6W-06
PO Box 33220
St. Paul, MN 55133-3220 USA
General Info. 1-800-374-6772
Technical Info. 1-800-328-3908
Fax 1-651-736-4233

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
52-5-626-0400
Fax 52-5-728-2299

3M Puerto Rico, Inc.

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

Fax-on-Demand 1-800-364-0768 US/Canada or 1-651-732-0106 International
Fax-on-Demand document: 4524
www.3M.com/US/graphicarts



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