



# Scotchcal™ Optically Clear Overlamine 8914 ES

## Description

This conformable, clear vinyl overlamine is designed specifically for use with 3M™ Scotchcal™ Perforated Window Graphic Films 8671 ES, 8674-10 ES, IJ8171 and RG8171 to protect the graphic from environmental factors such as dust, water and dirt that may collect in the perforated areas

### Advantages

- Provides an optically-clear view through a graphic from the inside of a building or a vehicle
- Exterior durability up to 2 years
- Interior durability up to 5 years

### Applications and End Uses

Overlamine 8914 ES is warranted by the 3M™ MCS™ Warranty when it is used as an overlamine to provide protection for window graphic films 8671 ES, 8674-10 ES, IJ8171 and RG8171.

	<b>Warning</b>
Applications that require an optically-clear view, such as vehicle window exteriors, must be laminated with the overlamine 8914. Failure to apply this overlamine could result in obstructed or impaired viewing when the product becomes wet.	

### Limitation of End Uses

The following uses and applications are specifically NOT warranted.

- Application to any film other than films 8671 ES, 8674-10 ES, IJ8171 and RG8171.

## Compatible Products

- 3M™ Scotchcal™ Perforated Window Graphic Film 8671 ES
- 3M™ Scotchcal™ Perforated Window Graphic Film IJ8171
- 3M™ Scotchcal™ Perforated Window Graphic Film RG8171
- 3M™ Scotchcal™ Perforated Window Graphic Film 8674-10 ES
- 3M™ Edge Sealer 3950

## Characteristics

This information is subject to change. Be sure this is the most current Product Bulletin. See 3M Related Literature at the end of this bulletin.

Characteristic	Description
Film color	Optically clear
Thickness (film and adhesive)	2 to 3.5 mils (0.05 to 0.09 mm)
Adhesive type	Pressure sensitive
Adhesive color	Optically clear
Liner	Polyester
Application temperature	50° to 100° F (10° to 38° C)
Roll sizes	36 in. x 50 yard (91 cm x 45 m) 49.5 in. x 50 yards (126 cm x 45 m) 54 in. x 50 yards (137 cm x 45 m)

## Effective Performance Life

When manufactured by one of 3M's Scotchprint® Graphics Authorized Manufacturer and applied in accordance with 3M recommended procedures, the following finished graphic performance may be expected. Performance statements are based upon field experience and exposure tests conducted throughout the United States; however, actual durability depends upon the substrate selection and preparation, exposure conditions, and maintenance of the graphics.

### Warranted Durability

For specific warranted durability, refer to the Product Bulletin for the film you are using. See 3M Related Literature at the end of this bulletin.

## Lamination

Refer to Instruction Bulletin 4.22 for how to apply overlamine 8914 ES as an overlamine for perforated window graphics.

## Premasking

Do not use premask application tape if the graphic has been laminated with overlamine 8914 ES.

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

## Application

When overlamine 8914 ES is used as the overlamine, the finished graphic usually does not need an edge sealer. However, use edge sealer 3950 if any of the following conditions exit.

- The graphic has an intricately-cut design that does not completely cover the window.
- The graphic will be cleaned by high pressure spray and at an angle less than 90 degrees. See Instruction Bulletin 6.5 for more details.
- On a daily basis the graphic is exposed to changes in altitude of more than 4000 feet (1219 m).

## Shelf Life, Storage, and Shipping

- Unprocessed overlamine has a shelf life of two years from the date of receipt from 3M. Processed laminate must be used within one year, even if the combined shelf life as processed and unprocessed laminate is less than two years.
- Store the film in a clean, dry area, away from direct sunlight, and at an ambient temperature less than 86°F (30°C).

## 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.

## Product Data

These properties are typical for overlamine 8914 ES. For a custom specification, contact your local 3M sales representative.

### Physical Properties

Property	Value
Tensile strength (minimum)	5 pounds/inch at 73°F (0.9 kg/cm at 23°C)
Applied shrinkage	0.015 inch (0.4 mm)
Service temperature range	-65° to +150°F (-54° to +65°C)

### Chemical Resistance

- Resists mild acids, alkalis, and salts
- Excellent water resistance

## 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:* Overlamine 8914 ES is warranted to be free of defects in materials and manufacture and to perform as 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 effective performance life. See the worldwide 3M™ MCS™ Warranty for detailed warranty information.

**This is the exclusive remedy; in no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor or non-3M material charges.**

### Attention:

#### Scotchprint® Graphics Authorized Manufacturers

There's a whole other world behind the Scotchprint® Graphics Internet site ([www.scotchprint.com](http://www.scotchprint.com)) and you can travel there with the Scotchprint® Graphics Network. This password-protected Web site opens the door to exclusive Scotchprint® Graphics product information, services and product promotions for 3M's Scotchprint® Graphics Authorized Manufacturers.

There's no charge and you can sign up today. Just ask your Commercial Graphics Division sales representative, or contact Lisa Burns ([ljburns3@mmm.com](mailto:ljburns3@mmm.com)).

## 3M Related Literature

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our Web site at [www.scotchprint.com](http://www.scotchprint.com), 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: 1-651-732-6506

Subject	Bulletin No.	FOD No.
<b>Product Bulletins</b>		
3M™ Scotchcal™ Perforated Window Graphic Film 8671 ES	8671	3513
3M™ Scotchcal™ Perforated Window Graphic Film 8674-10 ES	8674-10	3569
3M™ Scotchcal™ Perforated Window Graphic Film IJ8171	IJ8171	4545
3M™ Scotchcal™ Perforated Window Graphic Film RG8171	RG8171	4517
<b>Instruction Bulletins</b>		
Cold roll lamination	4.22	6522
<b>Other Documents</b>		
3M Bus Graphics Policy and Warranty Statement	75-5100-1315-6	

*Scotchprint is a registered trademark of 3M in the US and other countries.  
3M, MCS and Scotchcal are trademarks of 3M.*

### Bulletin Change Summary

Corrected the Instruction Bulletin referenced for laminating overlaminates 8914 to film.



#### 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

Fax-on-Demand 1-800-364-0768 US/Canada or 1-651-732-6506 International  
Fax-on-Demand document: 3542  
[www.scotchprint.com](http://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