



# Scotchcal™ Overlamine Film 8945 (ES)

## Description

### Advantages

- Thick, scuff resistant protection
- For graphics for floors or vertical applications
- Dimensionally stable
- For cold roll lamination

### Applications and End Uses

3M™ Scotchcal™ Electrostatic Overlamine Film 8945 (ES) is designed to provide a durable overlamine for a variety of films. These types of applications are warranted by the 3M™ MCS™ Warranty:

- Application to selected 3M films
- Application to 3M™ Scotchcal™ Film Series 8660 to make Scotchprint® Graphics for Floors
- Protection of graphics applied to areas of higher than normal wear

Note: Overlamine film 8945, which was previously approved for use only with film 8660, is now available for general use.

## Product Line

Property	Description
Film	8 to 9 mil (0.2 to 0.225 mm) Clear
Thickness (film with adhesive)	9 to 9.5 mil (0.23 to 0.25 mm) Clear
Adhesive	Pressure sensitive
Liner	78 pound bleached kraft paper

## Effective Performance Life

### Vertical Applications

When overlamine film 8945 is applied to other 3M films of equivalent durability and used in a vertical application in accordance with 3M recommended processing and installation instructions, the following performance may be expected:

**Warranted Durability:** Interior vertical – 2 years  
 Exterior vertical – 1 year

### Graphics for Floors

When film series 8660 is laminated with overlamine film 8945 in accordance with 3M recommended procedures, the following performance may be expected. The performance statements are based upon foot traffic experience in the field. Graphics may be damaged by pallets or heavy equipment such as fork-lifts; minor edge chipping is unavoidable. This type of damage is not covered by 3M's warranty. Performance depends upon preparation of the floor before application, the exposure conditions, the maintenance of the graphics, and the condition of the floor.

**Warranted Durability:** Interior floors – 1 year

## Application and Fabrication

### All Graphics

This Bulletin does not contain detailed application and fabrication procedures for this product. Refer to 3M Related Literature on page 2 for further information.

### Graphics for Floors

The film may be scrubbed, cleaned, and waxed during routine maintenance of the floor. Refer to Instruction Bulletin 5.26, Application and Maintenance for Graphics for Floors. Refer to Instruction Bulletin 5.19 for Lamination for Graphics for Floors.

### Premasking and Prespacing

Overlamine film 8945 does not require a premasking or prespacing tape for application.

## Shelf Life and Storage

The shelf life of unfabricated overlamine film 8945 is 2 years from receipt from 3M. Fabricated film should be applied within 1 year of lamination.

Film and graphics must be stored in a clean area, free from excessive moisture and direct sunlight, with ambient temperatures of 100°F (38°C) or less.

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

## Physical Properties

The values given are typical for overlamine film 8945 and are not for use as specifications. If a specification is desired, contact your local 3M sales representative to request one.

Property	English Units	Metric Units
Tensile strength (minimum)	11 inch pounds	2.0 kg/cm
Dimensional stability	0.015 inches	0.4 mm



FLOOR COATING AND FINISHING MATERIAL  
CLASSIFIED BY UNDERWRITERS LABORATORIES INC.®  
AS TO SLIP RESISTANCE ONLY  
4R14

## Flammability

Overlamine film 8945 laminated to film series 8660 has been tested to ASTM E84-95, "Surface Burning Characteristics of Building Materials." The results show that the composite meets the requirement of the National Fire Protection Association, Class I Interior Floor Finish as defined in NFPA 101, "Life Safety Code."

## 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.

## Warranty and Limited Remedy

### Graphics for Floors

Please refer to Product Bulletin 8660 dated September, 2000 or later.

### Vertical Graphics

*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 film 3645 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.scotchprintgraphics.com](http://www.scotchprintgraphics.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™ Controltac™ Plus Electrostatic Film Series 8660 (ES)	8660	3512
<b>Instruction Bulletins</b>		
Laminating graphics for floors	5.19	7019
Applying/maintaining graphics for floors	5.26	7026
<b>Warranties</b>		
<b>Worldwide 3M™ MCS™ Warranty Packet</b> (includes all Commercial Graphics MCS Warranties)		9503
Worldwide 3M™ MCS™ Warranty Overview-Folder		9504
Scotchprint® Graphics Warranty (includes overview)		9505

## 3M

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Fax-on-Demand document: 3515

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