



Scotchcal™

Luster Overlamine 3645

Description

This thick, scuff-resistant and durable overlamine is designed provide a slip resistant-surface for selected 3M films when used in the production of indoor floor graphics and certain vertical graphics.

Recommended Types of Graphics and End Uses

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

- Application to selected 3M films; refer to the base film's product bulletin for compatibility
- Application to 3M™ Scotchcal™ Graphic Film Series 162 to make either a Scotchprint® Graphics for Floors or 3M™ MCS™ Graphics for Floors (See Product Bulletin 162 for details)
- Protection of graphics applied to areas of higher than normal wear

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.

Characteristic	Description
Film	With adhesive: 8 to 9 mil (0.2 to 0.225 mm)
Color	Clear
Adhesive	Clear, pressure sensitive
Liner	Kraft paper
Tensile strength (minimum)	11 inch pounds (2.0 kg/cm)
Lamination temperature range	50° to 100°F (10° to 38°C)
Applied film shrinkage	0.015 inches (0.4 mm)

Characteristic	Description
Flammability	Overlamine 3645 laminated to film series 162 has been tested to ASTM E 648, "Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source." 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." Average Critical Radiant Flux (W/cm): 1.09

Graphic Performance Life

Vertical Applications

When overlamine film 3645 is applied to other 3M films of equivalent durability and used in a vertical application in accordance with 3M processing and installation instructions, the following performance life may be expected:

Warranted Durability: Indoor vertical graphics – 2 years

Graphics for Floors

When film series 162 is laminated with overlamine 3645 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

Warranty and Limited Remedy

Graphics for Floors

Please refer to the most current Product Bulletin 162.

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 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.

Application and Fabrication

All Graphics

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

Premasking and Prespacing

Overlamine 3645 does not require a premasking or prespacing tape for application.

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 Graphic for Floors. Refer to Instruction Bulletin 5.19 for Lamination for Graphics for Floors.

Shelf Life and Storage

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">• 100°F (38°C) maximum• Out of sunlight• Clean dry area• Original container
Shipping finished graphics	Flat, or rolled printed side out on 6 inch (15 cm) or larger core

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/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.

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		
3M™ Controltac™ Plus Film Series 162	162	1004
Instruction Bulletins		
Laminating graphics for floors	5.19	7019
Applying/maintaining graphics for floors	5.26	7026

Bulletin Change Summary

Removed the exterior vertical warranty period; this overlamine is warranted for indoor use only. Some information has been reorganized in this bulletin.



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: 1508
www.3M.com/graphics

3M Canada

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London, Ontario
Canada N6A 4T1
1-800-265-1840
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