Product Description

- 3M™ Scotchcal™ Luster Overlaminate 3645 and 3M™ Scotchcal™ Matte Overlaminate 3647 have been UL Classified for slip resistance in accordance with UL 410 (File SA11595).
- **3645** is cleanable and waxable
- **3647** is cleanable

Recommended Types of Graphics and End Uses

- **Luster Overlaminate 3645** - for floor graphics and some vertical graphics
- **Matte Overlaminate 3647** - for sidewalk signs
- **3645:** Expected performance life of one year (unwarranted period applied to a flat, non-vertical, outdoor surface)
- **3647:** Expected performance life of three months (unwarranted period applied to a flat, non-vertical, outdoor surface)

Characteristics

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

Performance Characteristics

Characteristic	Value
Material	Calendared vinyl
Thickness	**3645:** 8 mils (0.2 mm) **3647:** 19 mils (0.5 mm)
Gloss (60° gloss angle)	**3645:** Luster >70 **3647:** Matte <30
Slip Resistance (ASTM E303)	**3647, Dry Surface:** BPN = 56 **3647, Wet Surface:** BPN = 36
Liner	Kraft paper
Lamination Temperature	50°F to 100°F (10°C to 38°C)
In Use Temperature Range	-65°F to 225°F (-54°C to 107°C)
Chemical Resistance	• Resists mild alkalis, mild acids, and salt • Excellent resistance to water (does not include immersion) • Resists occasional fuel spills
Flammability	Go to the online product catalog at 3M.com/graphics or call 1-800-328-3908.

Factors Affecting Graphic Performance Life

The actual performance of a graphic is affected by:

- Complete ink drying or curing
- The combination of graphic materials used
- Selection, condition, and preparation of the substrate
- Surface texture
- Application methods
- Environmental conditions
- Angle and direction of sun exposure
- Cleaning and maintenance methods
- Removal methods and conditions

Graphics Manufacturing

Application Tapes

There are two types of application tapes. See 3M Instruction Bulletin Application: 3M™ Application Tapes for Graphic Films to determine what application tape is recommended for your 3M Graphics Products. Finished graphics eligible for any 3M warranty must be constructed using approved 3M Graphics Products. See the 3M Graphics Warranty Bulletin for more details.

Premasking Tape

Premasking tape increases stiffness during application while preventing stretching and damage. Use when little or no liner is exposed. See 3M Instruction Bulletin Application: 3M™ Application Tapes for Graphic Films for complete details.

Prespacing Tape

Prespacing tape holds cut and weeded letters or graphics in place during application and after removal of the film liner, while preventing stretching and damage. Use when large amounts of liner are exposed. See 3M Instruction Bulletin Application: 3M™ Application Tapes for Graphic Films for complete details.

Maintenance and Cleaning

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

Shelf Life, Storage, and Shipping

Shelf Life

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

Processing the film changes its shelf life to **one year** from the processing date, but no more than three years from the manufacturing date.

Storage Conditions

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

Shipping Finished Graphics

Flat, or rolled printed side out on a 6 in. (15 cm) or larger core. This helps prevent the application tape, if used, from popping off.

Application and Installation

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

- 3M Instruction Bulletin Production: Lamination
- 3M Instruction Bulletin Application: Floor Graphics

Health and Safety

Tools and Equipment Usage

When using any equipment, always follow the manufacturer's instructions for safe operation.

Chemicals

When handling any chemical products, read the manufacturers' container labels and the safety data sheets (SDS) for important health, safety, and environmental information.

Follow this link to obtain SDS sheets for 3M products.

Follow this link to obtain information about substances of very high concern (SVHC) for EU products.

Air Quality Regulations

Country, state, or regional volatile organic compound (VOC) regulations may prohibit the use of certain chemicals with VOCs in graphic arts coatings and printing operations. Check with local environmental authorities to determine whether use of this product may be restricted or prohibited.

Warranty Information

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 the film was purchased. Information found at 3M.com/graphicswarranties includes:

- 3M Graphics Warranties Bulletin
  - This bulletin contains information on limitations, exceptions, and warranty period reductions for 3M Graphics warranties. The warranty period may be reduced and stipulations may apply for certain constructions, applications, and graphic exposures as covered in this bulletin.
- 3M Graphics Warranties Selector
  - Use this selector to search for your warranty coverage by 3M Graphics Product(s), Inks, Printer, Application(s), and Exposure.
- 3M™ MCS™ Global Geographical Zones
  - Use this map to identify your warranty zone and determine if you are subject to reduced warranted durabilities.

Technical Information

Technical information, guidance, and other statements provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license to any intellectual property rights is granted or implied with respect to this technical information.

Product Selection and Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment, reviewing all applicable regulations and standards, and reviewing the product label and use instructions. Failure to properly evaluate, select, and use a 3M product in accordance with instructions or to meet all applicable safety regulations may result in injury, sickness, death, and/or harm to property.

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