8048G
8050M

Product Description

- Intended for application to flat surfaces and simple curves
- **8048G** is a gloss non-PVC polymer
- **8050M** is a matte non-PVC polymer
- Excellent scratch resistance
- Expected performance life of four years (unwarranted period applied to a flat, vertical, outdoor surfaces)
- **8050M** is UL Classified for slip resistance in accordance with UL 410 (File SA11595).
- Easy to clean
- Graffiti-resistant

Recommended Types of Graphics and End Uses

- Intermediate graphics
- Transit
- Labels
- Signage
- Smooth walls
- Windows and glass
- Floors (**8050M only**)

Characteristics

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

Physical Characteristics

In general, 3M™ Envision™ Overlaminates 8048G and 8050M require very little tension during overlaminate application. The tension provided by removing the release liner is almost always sufficient to achieve wrinkle-free applications. Excessive tension will curl the construction. One way to assess unwind tension is to place marks on the overlaminate exactly 12 in. (30.5 cm) apart prior to application. Apply the overlaminate, then measure the distance between the marks. If the marks are further than 12 1/16 in. (30.6 cm) apart, reduce the overlaminate unwind tension. Another indicator of excessive tension is a narrowing of the overlaminate by more than approximately 1/8 in. (3.2 mm).

Characteristic	Value
Material	Non-PVC polymer
Thickness	2 mils
Gloss (60° gloss angle)	**8048G**: Gloss >65 **8050M**: Matte <30
Liner	Kraft paper
Lamination Temperature	60°F to 100°F (16°C to 38°C)
In Use Temperature Range	-65°F to 225°F (-54°C to 107°C) (Though not for extended periods of time at the extremes.)
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

⚠ CAUTION

Before using any equipment, always read the manufacturer's instructions for safe operation.

Completely Dry Graphics

NOTE

Incomplete drying or curing can result in graphic failure including curling, increased shrinkage, and adhesion failure, which are not covered under any 3M Graphics warranty.

See the ink's 3M product and instruction bulletins for more details.

Graphic Protection

Graphic protection may improve the appearance, performance, and durability of the graphic. Click on the graphic protection options listed in this product bulletin or see the 3M Graphics Materials Product Catalog, for more information.

NOTE

During installation, scratches may occur on films without graphic protection.

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.

3M Related Literature

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

LEED v4 Credits

This section describes some options for acquiring LEED credits using this product.

> **NOTE**
> Each application is different. It is the sole responsibility of the end user to evaluate and determine whether the LEED credits listed below are applicable.

ID+C MR Credit, Interiors Life-Cycle Impact Reduction

- Option 1: Interior Reuse - The products can be used to refinish salvaged, refurbished, or reused nonstructural materials.
- Option 2: Furniture Reuse - The products can be used to refinish salvaged, refurbished, or reused furniture and furnishings.

ID+C, BD+C EQ Credit, Low-Emitting Materials

- The products are GREENGUARD GOLD Certified, meaning they are in compliance with the General Emissions Evaluation requirements.

BD+C MR Credit, Building Life-Cycle Impact Reduction

- Option 3: Building and Material Reuse - The products can be used to refinish permanently installed interior elements (e.g. walls, doors).

BD+C MR Credit, Furniture and Medical Furnishings

- Option 3: Multi-attribute assessment of products - The products can be used to refinish permanently installed interior elements (e.g. walls, doors).

O+M MR Credit, Purchasing - Facility Maintenance and Renovation

- The products can be used to refinish permanently installed interior elements (e.g. walls, doors).
- The products are GREENGUARD GOLD Certified, meaning they are in compliance with the General Emissions Evaluation requirements.

BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION INFORMATION

Environmental Product Declaration (EPD) or Life Cycle Analysis (LCA)

LCA information is available under a confidential disclosure agreement.

Raw Material Source and Extraction Reporting

Raw material source and extraction information for these products is 3M confidential and is therefore not available.

Extended Producer Responsibility

A take-back or recycling program for these products is not available.

Bio-based Materials

The products have not been tested to ASTM D6866.

Wood Products

The products do not contain wood-based materials.

Materials Reuse

The products can be used to refinish salvaged, refurbished, or reused materials and furniture.

Recycled Content

The products do not contain pre- or post-consumer recycled content.

Material Ingredient Reporting

The product ingredient information for these products is 3M confidential and is therefore not available.

GreenScreen Benchmark or Cradle to Cradle Certification

Neither the GreenScreen Benchmark nor the Cradle to Cradle Certification are available on these products.

REACH Optimization

- REACH Substance of Very High Concern certifications are available on 3M.com/SDS (US) or 3M.com/SVHC (Europe).

Product Manufacture Supply Chain Optimization

Based on our analysis, 3M meets required process and safety requirements as outlined in the criteria.

Location Valuation Factor

Based on supply chain, these products would not meet location valuation factor requirements of being extracted, manufactured, and purchased within 100 miles.

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.

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™ 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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