3M™ Decorative Polyester Glass Film

Technical Data Sheet
Revision H, September 2019

Product Description

3M Decorative Polyester Glass Film (the "Product") is a clear glass film that can be used to create custom color and design with UV inkjet or UV screen printing. The Product has a clear, pressure-sensitive adhesive that can be applied to glass and can be used in both new and refurbished interior décor. The Product is intended for use on interior glass in vertical applications in commercial buildings, including the interior of an outside glass wall.

Featured Benefits

Expected Performance Life is 7 years for vertical, indoor applications on non-perimeter glass.

Product Characteristics

The values in this table are typical, and are based on test data deemed reliable but are not warranted.

Characteristic		Value
Material	**Film**	Polyester
	Adhesive	Pressure-sensitive acrylic, permanent
	Release Liner	Silicone-coated polyester
Thickness	**Film + Adhesive**	3 mils (75 microns)
	Release Liner	1 mil (25 microns)
Maximum Roll Size	**Standard**	60 in. x 196 ft. (1520mm x 60 m) 50 in. x 196 ft. (1270mm x 60 m)
	Sample	50 in. x 9.8 ft. (1270mm x 3 m) [for a nominal cost]
Maximum Weight		70 lb. (32 kg) (approx.) 50 in. x 196 ft. roll 82 lb. (37 kg) (approx.) 60 in. x 196 ft. roll

Product Performance

The values in this table are typical, and are based on test data deemed reliable but are not warranted.

Characteristics	Value
Adhesion 24 hours after application *	Glass: 1.6 lb./in. (7N / 25mm)
Fire Resistance	When used in Interior Applications on glass, most Products have the National Fire Protection Association Class A (as defined in NFPA 101 "Life Safety Code" Test Method ASTM E84).
Heat Transmission Coefficient	6 W/m^2K
UV Blocking	Blocks at least 99% of UV light to reduce the discoloring (fading caused by sunlight) of furniture and other items.

* Test specimens were applied to the substrate and conditioned at 68 °F (20 °C), then peel tested at 180 degree at a tensile speed of 12 inches (300 mm) per minute.

Product Use

The user is solely responsible for evaluating and determining whether these 3M Products are suitable and appropriate for any particular use or manufacturing process in which they may be used.

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Processing Options

Printing

The Product may be UV cured inkjet or UV cured screen printed on a user test and approve basis. No warranty is made for the quality or durability of printed Product. The Product is not intended for aqueous (water based) or solvent based inks. Use a felt-covered squeegee for application to avoid scratching the printed surface.

IMPORTANT NOTE

Avoid low opacity printing.

Lamination

A clear overlaminate can be used on a user test and approve basis to protect the print if needed, such as 3M FASARA SH2CLAR abrasion-resistant polyester overlaminate.

Cutting

Electronic cutting, weeding and application tape with the Product is on a user test and approve basis. The user should consider the following: (1) the type of liner used for the Product is not intended for electronic cutting; (2) there is currently no recommended application tape that adheres properly to the face of the Product to hold cut shapes in place.

Application and Removal Guidelines

Avoid scratching, denting, or stretching the Product during installation. The values in these tables are typical, and are based on test data deemed reliable but are not warranted. See the 3M™ FASARA™ Glass Finishes Installation Guide for information on wet installation techniques.

Characteristic	Value
Application Surface Type	Flat
Application Surface Material	Glass
Application Location	Interior Applications
Application Temperature	54 °F - 100 °F (12 °C - 38 °C) air and application surface
Application Method	Wet application
Applied Product Shrinkage	Nominal
Applied Product Exposure Temperature	Maximum 176 °F (+80 °C)
High Humidity Environments	Products are not recommended for Interior Applications where condensation consistently occurs.
Product Removal	Low heat, or 3M™ Adhesive Remover Citrus Base and scraper

Shelf Life and Storage

Shelf Life

Apply the Product within 1 year of the date of purchase. The storage conditions specified in this document must be maintained for full shelf life.

Storage Conditions

- 40 °F - 90 °F (4 °C - 32 °C)
- Away from direct sunlight and high humidity
- Clean, dry area
- Original container with end caps, in the plastic sleeve, stored horizontally, a maximum of 6 cartons high
- Bring the Product to room temperature before application

Cleaning and Maintenance

NOTE: The Product may be cleaned beginning 30 days after installation.

Determining the suitability of this cleaning technique on the printed areas on the Product is the sole responsibility the user. Regular cleaning will help maintain the Product's appearance. Use only clean, nick-free tools and wipe gently only in one direction. Do not use alcohol, ammonia, chlorine, or organic-based cleaning products, polishing or cleaning compound, sponges, brushes or electric polishing equipment.

- If there is dust and grit, wipe it off with a soft, damp cloth.
- If it is soiled, but not gritty, use water and squeegee.
- If there is heavier soil, use a mild liquid detergent and water solution, then clear water, and wipe gently with a cloth wipe.

Health and Safety

CAUTION

When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety and environmental information. To obtain SDS sheets for 3M products go to 3M.com/SDS, or 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.

WARNING

To reduce the risks of personal injury and/or property damage associated with glass breakage:

A glass surface covered by a film with areas of high opacity or dark-colored ink will absorb more heat than other glass surfaces when exposed to sunlight. Heat absorption can create thermal expansion that could result in glass breakage or cracking. Do not use a film with areas of high opacity or dark-colored ink on glass surfaces with significant exposure to sunlight.

Technical Information

Technical information and data, recommendations, and other statements provided by 3M are based on information, tests, or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed. Such technical information and data are intended for persons with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. The typical values shown should not be used for the purpose of specification limits. If you have questions about this Product, contact the Technical Service helpline at 1-888-650-3497.

LEEDv4 Credits

This section describes some of the options for acquiring LEED credits using 3M™ Glass Finishes.

NOTE: Each application is different. It is the sole responsibility of the end user to evaluate and determine whether LEED credits can be acquired.

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

- Option 1: Interior Reuse - Product can be used to refinish salvaged, refurbished, or reused building materials

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

- Product has been tested to and is in compliance with the General Emissions Evaluation (California Department of Public Health (CDPH) Standard Method V1.1-2010)

ID+C, BD+C EQ Credit, Daylight

- Product can be used to enable daylight in enclosed spaces

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

- Option 3: Building and Material Reuse - Product can be used to refinish salvaged, refurbished, or reused building materials

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

- Product can be used to refinish salvaged, refurbished, or reused building materials
- Product has been tested to and is in compliance with the General Emissions Evaluation (California Department of Public Health (CDPH) Standard Method V1.1-2010)

BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION INFORMATION

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

EPD and/or LCA information not available.

Raw Material Source and Extraction Reporting

Raw Material source and extraction information for this product is considered to be 3M confidential and is therefore not available.

Extended Producer Responsibility

Take-back or recycling program for this product is not available.

Bio-based Materials

Product have not been tested to ASTM D6866.

Wood Products

Product does not contain wood-based materials.

Materials Reuse

Product can be used to refinish salvaged, refurbished, or reused building materials.

Recycled Content

Product does not contain pre- or post-consumer recycled content.

WARRANTY

Products

3M Decorative Polyester Glass Finish (the “Product”).

3M Basic Product Warranty

The Product(s) specified in this document are warranted to be free of defects in materials and manufacture (“3M Basic Product Warranty”) at the time of shipment (“Warranty Period”) by 3M or its authorized distributor.

Limited Warranty

1. For the Products specified in this document, 3M makes the 3M Basic Product Warranty only.
2. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, THE 3M BASIC PRODUCT WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, RIGHTS OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE AND THOSE ARISING FROM A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. THE BUYER IS RESPONSIBLE FOR DETERMINING IF A PRODUCT IS SUITABLE FOR ITS PARTICULAR PURPOSE AND APPLICATION METHODS.
3. For a buyer’s convenience, 3M may provide engineering or technical information, recommendations, installation instructions or guides, and other information or materials relating to a Product (“Other Product Information”), but 3M makes only the 3M Basic Product Warranty and does not warrant any Other Product Information.
4. 3M has no obligation under the 3M Basic Product Warranty as to Product that has been: (a) modified, altered or processed in any manner; (b) stored, applied, installed, or used in a manner other than that 3M recommends in this document and in all Other Product Information; (c) damaged through contact with a person or thing, misuse, accident, neglect, or other action by anyone other than 3M; (d) improperly installed, including, without limitation, installation after the expiration the Product’s shelf life or installation without proper surface preparation, or (e) exposed to excessive heat, humidity, dirt or UV light.
5. 3M must receive any 3M Basic Product Warranty claim in writing no later than 10 business days after (a) the end of the Warranty Period or (b) the discovery of the 3M Warranty claim, whichever is earlier.

Limited Remedy

IF ANY PRODUCT IS PROVEN NOT TO HAVE MET THE 3M BASIC PRODUCT WARRANTY OR THE 3M LIMITED WARRANTY DURING THE WARRANTY PERIOD, THEN THE BUYER’S EXCLUSIVE REMEDY, AND 3M’S SOLE OBLIGATION, WILL BE, AT 3M’S OPTION, TO REPLACE THE NONCONFORMING PRODUCT OR TO REFUND THE NONCONFORMING PRODUCT’S PURCHASE PRICE.

No Extension of Warranty

In the case of an approved warranty claim, the replacement Product will carry only the remaining term of the original warranty period.

Limitation of Liability

3M WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO A BUYER FOR DIRECT (other than the Limited Remedy stated above), SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS) IN ANY WAY RELATED TO THE PRODUCT, THE TECH DATA SHEET OR OTHER PRODUCT INFORMATION, REGARDLESS OF THE LEGAL OR EQUITABLE THEORY ON WHICH SUCH DAMAGES ARE SOUGHT.

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