

Dusted and Frosted

Product Description

3M™ CRYSTAL Glass Finishes (the “Products”) offer both dusted and frosted designs that provide the look of sandblasted or etched glass, at a fraction of the cost. On a user test and approve basis, you can digitally print on the Products for both customization and personalization options. These Products have a permanent, pressure-sensitive adhesive and a transparent polyester liner for easy cutting. They are available in a dusted crystal finish in translucent white or frosted crystal finish in six translucent colors.

Featured Benefits

- Expected Performance Life is 15 years for vertical, indoor applications on non-perimeter glass.

Product Characteristics

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

Characteristic		
Material	Film	Vinyl
	Adhesive	Pressure-sensitive acrylic, permanent
	Release Liner	Silicone-coated polyester
Thickness	Film + Adhesive	3.2 mils (81 microns) - 7725SE-314 Dusted White 4.7 mils (120 microns) - All Frosted patterns
	Release Liner	3.6 mils (90 microns)
Maximum Roll Size		60 in. x 150 ft. (152 cm x 46 m) - 7725SE-314 Dusted White & 7725SE-324 Frosted White 48 in. x 150 ft. (122 cm x 46 m) - All other Frosted patterns
Maximum Weight		62 lb. (29 kg) (approx.) 60 in. x 150 ft. roll 49 lb. (23 kg) (approx.) 48 in. x 150 ft. roll
Colors		7725SE-314 Dusted White 7725SE-324 Frosted White 7725SE-323 Frosted Rose 7725SE-325 Frosted Violet Sky 7725SE-326 Frosted Mint 7725SE-327 Frosted Blue Mist 7725SE-331 Frosted Gold

Product Performance

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

Characteristics	Value	
Adhesion 24 hours after application *	Acrylic, Glass, and Polycarbonate	4 lb./in. (18 N/25mm)
Fire Resistance	When used in Interior Applications, Products have a Class A rating (as defined by NFPA 101 “Life Safety Code”. Test Method ASTM E84).	
Tensile Strength Minimum	Dusted Crystal	Frosted Crystal
	5 lb./in. at 73°F (23N / 25mm at 23°C)	3.5 lb./in. at 73°F (15N / 25mm at 23°C)

* 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.



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Optical Performance

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

Characteristic		Dusted CRYSTAL	Frosted CRYSTAL
Shading Coefficient *		0.93	0.82
Solar Heat (%)	Reflectance *	7%	10%
	Transmittance *	76%	64%
	Absorbance *	17%	26%
Visible Light (%)	Reflectance *	8%	12%
	Transmittance *	85%	72%
UV (%)	Transmittance *	27%	20%

* As measured on 6mm clear glass.

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.

Application and Removal Guidelines

The values in these tables are typical, and are based on test data deemed reliable but are not warranted. See the 3M CRYSTAL Glass Finishes Installation Guide for additional information.

Characteristic	Value
Application Surface Type	Flat
Application Surface Material	Glass, acrylic, polycarbonate
Application Location	Interior and exterior applications.
Application Temperature	54°F - 100°F (12°C - 38°C) air and application surface
Application Method	Wet application
Applied Product Shrinkage	0.01 in. (0.3mm) maximum
Applied Product Exposure Temperature	-40°F - +149°F (-40°C - +65°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

Processing Options

Inkjet Printing

3M™ CRYSTAL Glass Finishes may be inkjet printed or screen printed with UV-cured or solvent inks on a user test and approve basis. No warranty is made for the quality or durability of printed Product.

Cutting

Based on electronic cutting and weeding evaluations that used Helvetica medium upper case, the recommended minimum cutting height for text is 0.375 in. (0.95 cm). Because of the differences in electronically controlled cutting equipment and font characteristics, users should determine their own cutting and weeding capability.

- Sharpness of the knife blade. Dull blades create a serrated look to the cut edge of the Product.
- Weight on the knife blade. The ideal weight slightly scores the liner. Too little weight does not cut completely through the film and adhesive. Excessive weight cuts the liner. It also causes the blade to drag, accelerating wear and eventually creating a serrated cut edge on the Product.
- Temperature and relative humidity are minor considerations, but avoid extreme or rapidly fluctuating conditions.
- Store the Product in the same environment as the cutting equipment.
- Consider the stroke width of characters, style of serifs or extensions, and small details of scanned or digitized artwork.

The minimum recommended stroke width is 0.040 in. (1.0 mm) when the Product will be exposed to cleaning or other physical stress.

Weeding

Please see the 3M™ CRYSTAL Glass Finishes Installation Guide for details. An application tape can be laminated to the product to support the cut shapes. Please see the 3M™ CRYSTAL Glass Finishes Installation Guide for recommended applications tapes.

Shelf Life and Storage

Shelf Life

Apply the Product within 2 years 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.

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 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 TECH SERVICE #.

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.

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WARRANTY

Product

3M CRYSTAL Glass Finishes (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") on the date of shipment ("Warranty Period") by 3M or its authorized distributor.

Limited Warranty

1. For Products used in Interior Applications or Exterior Applications in the continental United States, 3M makes the following warranty (the "3M Limited Warranty") for the applicable time period stated below ("Warranty Period"), which will begin on the earlier of: (a) Product installation date; or (b) six months after 3M's Product shipment date.

The Product will have no significant discoloration, cracking or other similar visual defects for the applicable time period below:

Application		Warranty Period
Interior Applications	Excluding building perimeter glass	15 years
	Building perimeter glass	5 years
Exterior Applications	Vertical glass	3 years
Plastic application surfaces		Not warranted

2. For a buyer's convenience, 3M may provide engineering or technical information, recommendations, installation instructions, and other information or materials relating to Product ("Other Product Information"), but 3M makes only the 3M Basic Product Warranty and the 3M Limited Warranty and does not warrant any Other Product Information.
3. 3M has no obligation under the 3M Basic Product Warranty or the 3M Limited 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.
4. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, THE 3M BASIC PRODUCT WARRANTY AND 3M LIMITED WARRANTY ARE MADE IN LIEU OF ALL OTHER WARRANTIES, RIGHTS OR CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, 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 ITS APPLICATION METHODS.
5. 3M must receive any 3M Basic Product Warranty or 3M Limited 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.

WARRANTY (continued)

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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