



## Product Description

3M™ DI-NOC™ Glass Finishes (the "Products") are decorative films for application directly behind interior glass. These Products have a clear, pressure-sensitive adhesive on the front surface of the DI-NOC design which can be seen through the glass. Products can be used behind many glass surfaces and provide an opaque dimensional look when viewed from the front glass surface. The current Product line can be found in the 3M™ Glass Finishes Product Catalog (the "Catalog").

### **i** IMPORTANT NOTE

Please refer to the 3M™ FASARA™ Installation Guide for additional information on wet application. This is a wet applied product, different than 3M™ DI-NOC™ Architectural Finishes.

## Featured Benefits of DI-NOC™ Glass Finishes

- Application Surfaces - apply under glass surfaces including glass walls, panels, table tops, shelves, fixtures and more
- Designs - available in select opaque DI-NOC designs such as abstract, stone, fabric, woodgrain and metallic
- Provides an easy to clean, durable glass surface with a dimensional appearance
- Easy Application - wet application virtually eliminates bubbles, simplifying and speeding application process
- Expected Performance Life of 5 years (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    |                 | Value  |
|-------------------|-----------------|--|
| Material          | Film            | Vinyl  |
|                   | Adhesive        | Pressure-sensitive acrylic, permanent                        |
|                   | Release Liner   | Silicone-coated polyester film                               |
| Thickness         | Film + Adhesive | 7.28 mils (185 microns) nominal, not including release liner |
|                   | Release Liner   | 2.95 mils (75 microns)                                       |
| Maximum Roll Size |                 | 48 in. x 82 ft. (1,220mm x 25m)                              |
| Maximum Weight    |                 | 30 lb. (14 kg) (approx.) for a 82 ft. (25m) roll             |

## Product Line

The following designs are available with an order quantity of 1 roll. Hundreds of additional DI-NOC Glass Finish designs are available by special order with a larger order quantity. Please contact the 3M Help Center at 1-888-364-3577 for more information.

| Design Type       | Product Code | Design Type  | Product Code | Design Type       | Product Code |
|-------------------|--------------|--------------|--------------|-------------------|--------------|
| Metallic          | DG-432       | Textile Silk | DG-1689      | Abstract          | DG-1678      |
| Metallic Hairline | DG-379       | Fine Wood    | DG-1022      | Stone             | DG-1587      |
| Metallic Hairline | DG-1713      | Fine Wood    | DG-1129      | Stone             | DG-1831      |
| Textile           | DG-1786      | Fine Wood    | DG-1751      | Mortar/<br>Stucco | DG-1719      |
| Textile Silk      | DG-1156      | Abstract     | DG-1161      | Solid Color       | DG-503       |
| Textile Silk      | DG-1613      | Abstract     | DG-1528      | Solid Color       | DG-504       |



## Product Performance

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

| Characteristics             | Result  |
|-----------------------------|---|
| Adhesion after application* | Glass: 6.85 lb/in. (30.0 N/25 mm)   |
| Tensile Strength            | 16 lb/in. (70 N/25 mm)  |
| Fire Resistance             | When used in Interior Applications on glass, all patterns have Class A fire rating per ASTM E84 (as defined in NFPA 101 "Life Safety Code") |

\* 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.

## Optical Performance

3M™ DI-NOC™ Glass Finishes are opaque and have no measured optical properties.

## New Designs

Additional DI-NOC for Glass designs are available by special order. Please contact the 3M Help Center at 1-888-364-3577 for more information.]

## Product Use

**Interior Use:** These Products are designed for application to building interior glass and interior glass fixtures. Use on building interior perimeter glass, meaning the interior of an outside glass wall, is on a user test and approve basis due to the risk of thermal cracking and is not warranted.

**Exterior Use:** These Products are not designed for use on exterior glass.

## 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 additional information.

| Characteristic                              | Value  |
|---|--|
| <b>Application Surface Type</b>             | Flat   |
| <b>Application Surface Material</b>         | Glass surfaces are recommended. Application to plastic is not warranted.                       |
| <b>Application Location</b>                 | All Product designs are only for Interior Applications only.                                   |
| <b>Application Temperature</b>              | 54 °F - 100 °F (12 °C - 38 °C) air and application surface                                     |
| <b>Application Method</b>                   | Wet application  |
| <b>Applied Product Shrinkage</b>            | Nominal  |
| <b>Applied Product Exposure Temperature</b> | Interior Applications: maximum 176 °F (+80 °C)   |
| <b>High Humidity Environments</b>           | Products are not recommended for Interior Applications where condensation consistently occurs. |
| <b>Product Removal</b>                      | Low heat or 3M Adhesive Remover Citrus Base and scraper  |

**NOTE:** Removing the Product too quickly can result in excessive adhesive left on the substrate. If necessary, heat a small section of the film with a heat gun to soften the adhesive, peel back slowly, then heat and remove the next section.

## Processing Options

Processing of the Product is on a user test and approve basis only. The user is responsible for results in all processing applications.

### Printing

The Products are not designed for surface printing. Adhesive is located on the front surface of the DI-NOC design and cannot be printed. The back surface is a solid-colored vinyl film not designed for viewing. Printing is on a user test and approve basis only. No warranty is made for the quality or durability of printed Product.

### Cutting

Electronic cutting, weeding and application tape with the Product is on a user test and approve basis. The user should consider that the type of liner used for the Product is not intended for electronic cutting.

## 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

## Cleaning and Maintenance

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

The front glass surface can be cleaned by standard glass cleaning methods. 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](https://www.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™ DI-NOC™ 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

### (PENDING) 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 V1.2)

### 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 V1.2)

## 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™ DI-NOC™ Glass Finishes (the “Product(s)”) are decorative films for use in interior glass applications in commercial buildings (“Interior Applications”).

### 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

- For Products used in the 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 | 3 years                                    |
|                              | Building perimeter glass           | Not warranted                              |
| Exterior Applications        |                                    | Not warranted                              |
| Plastic application surfaces |                                    | 3M Basic Product Warranty only (see above) |

- 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.
- 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.
- 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.
- 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.

### 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.

### Commercial Solutions

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