



## Product Description

3M™ FASARA™ Glass Finishes (the "Products") are decorative glass and window films available in over 100 designs. These decorative Products can be used in vertical applications in commercial buildings to control both light and privacy through a building's interior glass, including the interior of an outside glass wall (the "Interior Applications"). These Products have a clear, pressure-sensitive adhesive that can be applied to glass. The current Product line can be found in the 3M™ Glass Finishes Product Catalog (the "Catalog").

### IMPORTANT NOTE

Please refer to the [3M™ FASARA™ Glass Finishes Installation Guide](#) for additional information on wet application.

## Featured Benefits

- Based on a durable polyester film with a pressure-sensitive adhesive backing
- Privacy - capture the look of custom etched or sandblasted glass over a wide range of visible light transmission
- Designs - choose from a variety of designs created in collaboration with leading designers from across the globe
- New designs with an embossed textured surface add a dimensional effect
- Easy application - wet application virtually eliminates bubbles, simplifying and speeding application
- Expected performance life of five to 20 years for indoor, vertical applications on non-perimeter glass, depending on the design (see Warranty)

## Product Characteristics

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

Characteristic		Value
Material	Film	Polyester*
	Adhesive	Pressure-sensitive acrylic, permanent
	Release Liner	Silicone-coated polyester
Thickness	Film + Adhesive	3.3 mils (85 microns) (approx.) See Table A.
	Release Liner	1 mil (25 microns)
Maximum Roll Size	Standard	50 in. x 98.4 ft. (127 cm x 30 m)
	Mist W/S/PR, Pop W, Oval, Sand, Cloud, Illumina PR, Matte Crystal-i, Milky White, Milky Milky, Oslo, Fine Crystal, Frost Walnut, Frost Walnut Smoke, Pyrgos	60 in. x 98.4 ft. (152.4 cm x 30 m)
	Milky White	60 in. x 196.8 ft. (152.4 cm x 60 m)
Maximum Weight		35 lbs. (16 kg) (approx.) for a 50 in. x 98.4 ft. roll

\*The Matte Crystal 2, Milky Crystal, Frost Matte, Frost Sucre, Hairline, and 4 Cross Hairline patterns contain polyester and polyvinyl chloride.

**NOTE:** Illumina Silky-W, Illumina Silky-S, Illumina Seamless-W2, Illumina Seamless-S2, and Illumina Seamless-PR are available in sheet format. Please see the [3M FASARA™ Glass Finishes Sheet Format Application Guidelines](#) for sheet size and layout details.

## Product Performance

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

Characteristics	Value
Typical Adhesion 24 Hours After Application*	Glass: 1.6 lbs/in. (7.0 N/25 mm)
Tensile Strength	45 - 90 lbs/in. (200 - 400 N/25 mm)
Fire Resistance	When used in interior applications, all patterns have a Class A fire rating per ASTM E84 (as defined in NFPA 101 "Life Safety Code").
VOC Emission Testing	Compliant as low emitting per CA Specification 01350, tested per CDPH Standard Method V1.1 or V1.2.
Industry-Specific Testing	IMO Certification/USCG Type Approval
Heat Transmission Coefficient	6 W/m <sup>2</sup> K, all products
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 degrees at a tensile speed of 12 in. (30 cm) per minute.

## Optical Performance Characteristics Definitions

**Shading coefficient:** Measurement of sun-blocking effect, based on the percentage of sunlight passing through transparent glass with the Product applied, where the value "1" represents the amount of sunlight passing through 0.12 in. (3 mm) thick transparent glass with no film applied. Lower shading coefficient numbers represent greater shading effects.

**Transmittance, reflectance, and absorbance:** Measurements of the respective rates at which UV (ultraviolet light), brightness (visible light), and heat (sunlight) are transmitted, reflected, or absorbed.

**Heat transmittance:** Measurement of the ease of heat escape caused by a temperature difference between interior and exterior, based on the amount of heat that would escape in one hour from a surface area of 10.8 sq ft (1 m<sup>2</sup>) when there is a temperature difference of 1.8°F (1°C).

**Table A.** Optical Performance Characteristics for All Product Designs. The optical values in this table are calculated as theoretical values and compiled with existing data. In patterned Product designs, the value is an average across the pattern. The values in this table are typical, and are based on test data deemed reliable, but they are not warranted.

	Product Design	Thickness: Film + adhesive (microns)	Shading Coefficient	Solar Heat (%)			Visible Light (%)		UV (%)
				Reflectance	Transmittance	Absorbance	Reflectance	Transmittance	Transmittance
Gradations	Mist-W (SH2FGMI-W)	86	0.96	8	80	12	9	88	0
	Mist-S (SH2FGMI-S)	90	0.95	8	80	13	9	88	0
	Mist-PR (SH2FGMI-PR)	90	0.95	8	80	13	9	88	0
	Pop-W (SH2FGPP-W)	86	0.95	8	79	13	10	86	0
	Pop-S (SH2FGPP-S)	86	0.96	8	80	12	9	88	0
	Oval (SHFGOV)	85	0.92	10	76	15	12	81	0
	Sand (SH2FGSD)	88	0.95	8	79	13	9	86	0
	Cloud (SH2FGCL)	90	0.87	11	70	19	13	73	0.1
	Cloud Narrow (SH2FGCN)	93	0.93	9	77	14	11	83	0
	Cloud Narrow light gray (SH2FGCNL)	93	0.88	8	70	23	9	73	0
	Cloud Narrow blue gray (SH2FGCNB)	92	0.84	8	64	29	8	66	0
	Cloud Narrow dark gray (SH2FGCND)	92	0.79	7	57	36	8	59	0
	Illumina Silky W (SH2SSIM-W)	78	0.7	29	57	14	36	54	0.1
	Illumina Silky S (SH2SSIM-S)	78	0.66	32	53	16	40	48	0.1
	Illumina Seamless-W2 (SH2SSIM-S2)	90	0.83	14	66	20	19	67	0
	Illumina Seamless-S2 (SH2SSIM-S2)	90	0.79	16	62	22	22	61	0
	Illumina Seamless-PR (SH2SSIM-PR)	90	0.79	16	62	22	22	61	0
	Illumina (SH2FGIM)	83	0.72	16	53	31	20	51	0
	Illumina Alpha (SH2FGMIX)	153	0.8	16	63	21	22	65	0.4
	Illumina-PR (SH2FGIM-PR)	80	0.72	20	54	26	28	53	0
	Illumina-g (SH2FGIM-G)	81	0.83	13	66	21	14	66	0
	Illumina Silver (SH2SIIM)	77	0.44	50	33	17	59	36	0
	Illumina Black (SH2BKIM)	79	0.52	6	19	75	6	20	0
	Aerina (SH2FGAR)	81	0.91	12	76	13	13	79	0
	Sabrina (SH2FGSB)	90	0.93	9	77	14	10	83	0
	Lontano (SH2FGLO)	81	0.74	20	57	23	22	61	0
	Venetian (SH2FGVN)	85	0.73	18	55	27	23	54	0
Diamond (SH2FGDM)	80	0.76	16	58	26	20	58	0	
Tsurugi (SH2FGTG)	81	0.75	19	58	23	21	61	0	

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	Product Design	Thickness: Film + adhesive (microns)	Shading Coefficient	Solar Heat (%)			Visible Light (%)		UV (%)
				Reflectance	Transmittance	Absorbance	Reflectance	Transmittance	Transmittance
Natural	Shigure (SH2PTSG)	89	0.79	15	61	24	19	63	0
	Shigure Gray (SH2GRSG)	88	0.65	6	37	57	6	33	0
	Shigure Black (SH2BKSG)	88	0.52	6	20	75	6	15	0
	Fibril (SH2PTFB)	91	0.71	20	53	27	27	52	0
	Brushed (SH2FGBR)	80	0.83	13	65	22	17	66	0
	Brushed Black (SH2BKBR)	84	0.54	6	23	72	6	17	0
	Travertine (SH2FGTV)	79	0.82	13	64	23	17	65	0
	Travertine Black (SH2BKTV)	80	0.52	6	20	75	6	15	0
	Terrazzo (SH2FGTZ)	81	0.72	18	54	27	25	53	0
	Terrazzo Black (SH2BK TZ)	80	0.54	6	22	72	6	16	0
Frost/Matte	Matte Crystal 2 (SH2MACRX2)	126	0.95	7	79	14	8	86	0.2
	Matte Crystal-i (SH2MACR-I)	95	0.94	8	78	14	9	85	0.1
	Fine Crystal (SH2FNCR)	113	0.94	8	78	14	9	84	0.1
	Mare (SH2FGMR)	90	0.91	9	74	18	10	78	0
	Milky White (Milano) (SH2MAML)	77	0.75	17	57	26	21	59	0
	Glace (SH2MAGL)	85	0.77	14	58	28	18	56	0
	Luce (SH2FGLU)	85	0.59	23	39	38	31	34	0
	Milky Crystal (SH2MLCRX)	126	0.4	31	18	51	42	19	0
	Milky Milky (San Marino) (SH2MAMM)	105	0.44	34	25	41	43	21	0
	LAUSANNE (SH2EMLA)	113	0.94	8	78	14	9	84	0.1
	OSLO (SH2EMOS)	119	0.92	8	76	16	9	83	0.1
	ESSEN (SH2EMES)	120	0.67	23	50	27	26	55	0.1
	Frost Matte (SH2FRMAX)	135	0.95	8	80	13	8	89	0.2
	Frost Sucre (SH2FRSCX)	127	0.78	11	59	30	14	57	0.2
	CHAMONIX (SH2EMCH)	120	0.67	26	51	23	35	47	0
	Cielo (SH2FGCE)	81	0.74	19	58	23	26	56	0
	Opaque White (SH2MAOW)	142	0.3	46	13	41	57	10	0

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	Product Design	Thickness: Film + adhesive (microns)	Shading Coefficient	Solar Heat (%)			Visible Light (%)		UV (%)
				Reflectance	Transmittance	Absorbance	Reflectance	Transmittance	Transmittance
Reflect / Hairline	Milky Milky light gray (SH2MAMML)	93	0.79	11	59	30	12	61	0
	Milky Milky dark gray (SH2MAMMD)	93	0.74	10	51	39	10	51	0
	Milky Milky blue gray (SH2MAMMB)	95	0.77	11	55	34	11	55	0
	Opaque Black (SH2BKOP)	79	0.39	5	1	94	5	0	0
	Hairline Matte (SH2HLMMA)	126	0.96	8	81	11	10	90	0
	Reflect (RE1SAIR)	75	0.08	78	0	21	91	0	0
	Chain Mesh reflect (SH2SICMR)	76	0.46	51	36	14	59	36	0
	Cross Hairline Matte (SH2CHMA)	126	0.96	8	81	11	9	90	0
	Cross Hairline Sucre (SH2CHSC)	127	0.77	15	58	28	19	57	0
	Cross Hairline Milky (SH2CHML)	125	0.52	29	31	40	39	26	0
	Frost Walnut (SH2PTFW)	84	0.96	8	80	12	9	87	0.1
	Frost Walnut Smoke (SH2PTFWS)	87	0.75	7	50	43	7	49	0
	Cross Hairline light gray (SH2CHMAL)	126	0.78	6	55	39	6	51	0
Washi	Pyrgos (SH2PTPG)	88	0.66	19	45	36	25	43	0
	Straight Washi (SH2FGSW)	90	0.77	14	57	29	18	57	0
	YAMATO (SH2PTYA)	89	0.89	12	74	14	15	79	0
	Altair (SH2FGAT)	86	0.77	17	60	22	23	60	0
	Vega (SH2FGVG)	86	0.77	16	60	24	21	60	0
	Safu (SH2PTSF)	95	0.72	20	54	26	27	54	0
	SAGANO (SH2PTSA2)	89	0.83	14	66	20	18	68	0
	RIKYU (SH2PTRK)	103	0.86	7	67	26	8	72	0
Fabric	Sensai Linen (SH2FGSE)	74	0.75	16	56	28	21	56	0
	Sensai Linen champagne gold (SH2CSSEC)	79	0.77	22	63	15	25	63	0
	Grain champagne gold (SH2CSGC)	78	0.78	22	64	14	24	64	0
	Linen (SH2FGLN)	78	0.79	17	64	19	23	65	0
	Canvas (SH2FGCV)	77	0.66	21	47	33	28	47	0
	Canvas champagne gold (SH2CSCVC)	78	0.74	25	61	14	29	61	0
	Linen Crystal (SH2LNCR)	81	0.81	13	62	25	17	63	0
	Buckram (SH2FGBU)	79	0.86	12	69	19	14	69	0
	Weave pearl (SH2EMWP)	90	0.84	12	66	22	15	66	0
	Weave pearl + dark gray (SH2EMWG)	94	0.73	10	50	40	10	50	0
	Buckram pearl + gray (SH2FGBUG)	77	0.76	11	55	34	12	55	0

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	Product Design	Thickness: Film + adhesive (microns)	Shading Coefficient	Solar Heat (%)			Visible Light (%)		UV (%)
				Reflectance	Transmittance	Absorbance	Reflectance	Transmittance	Transmittance
Border/Dot/Geometric	Cut Glass (SH2CSC)	76	0.75	15	55	30	20	55	0.1
	Cut Glass pearl (SH2CSCP)	78	0.76	16	58	26	18	58	0.1
	Astral Silver (SH2CSAS)	82	0.42	44	28	28	51	30	0
	Vista (SH2FGVI)	81	0.83	15	67	18	17	72	0
	SHIZUKU (SH2FGSK)	81	0.84	13	68	19	16	71	0
	KANON (SH2FGKN)	79	0.88	13	73	14	14	78	0
	Aura 9 (SH2PCA9)	81	0.96	8	89	3	8	87	0
	Luna 6 (SH2PCL6)	76	0.68	17	48	34	22	46	0
	Luna 9 (SH2PCL9)	83	0.63	19	43	39	24	39	0
	Lattice (SH2FGLT)	84	0.60	22	41	37	28	36	0
	Slat (SH2FGSL)	88	0.6	22	41	37	28	36	0
	Slat g (SH2FGSL-G)	83	0.77	14	58	28	16	56	0
	Paracell (SH2FGPR)	80	0.71	17	53	30	20	50	0
	Pixela (SH2FGPX)	81	0.78	16	62	22	18	60	0
	Leise (SH2FGLS)	81	0.96	9	81	11	9	88	0
Stripe	Fusion pearl (SH2CSFP)	78	0.78	16	60	24	21	60	0.1
	Fine String (SH2PTFS)	76	0.86	13	69	18	16	69	0
	String (SH2PTST)	77	0.88	17	74	9	22	74	0
	Wind (SH2PTWD)	88	0.81	11	61	28	13	61	0
	Safari (SH2PTSR)	85	0.81	13	63	24	16	63	0
	String Reverse (SH2PTSTR)	78	0.74	16	54	30	21	54	0
	Fine (SH2FGFN)	81	0.65	22	46	32	27	48	0
	Seattle (SH2DGST)	81	0.85	16	70	14	22	74	0
	Seattle Fine (SH2DGST-F)	80	0.85	16	71	13	25	68	0
	Shutie (SH2FGST)	81	0.77	17	60	24	22	59	0
	Shutie Black (SH2BKST)	81	0.7	21	53	26	29	51	0
	Arpa (SH2FGAP)	79	0.78	17	61	22	22	67	0.1
	Arpa Crystal (SH2APCR)	81	0.78	13	59	28	17	58	0
	Arpa Black (SH2BKAP)	81	0.54	8	25	67	8	22	0
Transparent AR (SH2CLAR)*	76	0.98	8	83	9	8	90	0.1	

\*All product designs were applied to a 0.1 in. (3 mm) thick transparent glass substrate to calculate the values in this table.

## Resistance to Cleaners and Disinfectants

Glass finishes are wet applied to glass and allowed to dry for at least 48 hours.

For wipe testing, the cleaner or disinfectant is applied to the sample to simulate routine use in a healthcare setting, then wiped off with a cloth. For immersion testing, the sample is immersed in the cleaner or disinfectant for 10 minutes or up to 24 hours, then rinsed with water and allowed to dry. Any change in the surface of the glass finish is noted. Other cleaners and disinfectants with the same active ingredient are expected to perform similarly.

Cleaner or Disinfectant	Wipe Testing Result	Immersion Time	Immersion Testing Result
3M™ C. diff Solution Tablets Concentrate	No visible change	24 hours	No visible change
3M™ HB Quat Disinfectant Cleaner Concentrate #25A	No visible change	24 hours	No visible change
3M™ Neutral Quat Disinfectant Cleaner Concentrate #23	No visible change	24 hours	No visible change
70% Isopropyl Alcohol and 30% Water	No visible change	24 hours	No visible change
3M™ MBS Cleaner Concentrate #41	No visible change	10 minutes	No visible change
3M™ Quat Disinfectant Cleaner Concentrate #5A	No visible change	10 minutes	No visible change
3M™ RCT Disinfectant Cleaner Concentrate #40A	No visible change	10 minutes	No visible change
50% Clorox® bleach Solution	No visible change	10 minutes	No visible change

## Product Use

**Interior Use:** Most Products are designed for application to building interior glass and building interior perimeter glass, meaning the interior of an outside glass wall.

**Exterior Use:** Matte Crystal 2, Milky Crystal, Frost Matte, and Frost Sucre are the only Products designed for use on exterior glass.

**Anti-Reflection Effect:** When used in exterior applications, the Matte Crystal 2, Milky Crystal, Frost Matte, and Frost Sucre product designs scatter sunlight to reduce reflected light.

## Application and Removal Guidelines

Avoid scratching, denting, or stretching the Product during installation. The values in this table are typical, and are based on test data deemed reliable, but they are not warranted. See the [3M™ FASARA™ Glass Finishes Installation Guide](#) for additional information.

Characteristic	Value
Application Surface Type	Flat
Application Surface Material	Glass substrates only.
Application Location	The Matte Crystal 2, Milky Crystal, Frost Matte, and Frost Sucre Product designs can be applied to exterior applications. All other Product designs are only for interior applications.
Application Temperature	54°F to 100°F (12°C to 38°C) air and application surface
Application Method	Wet application
Applied Product Shrinkage	Nominal
Applied Product Exposure Temperature	<b>Exterior Applications:</b> -40°F to +149°F (-40°C to +65°C) <b>Interior Applications:</b> 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

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

## Processing Options

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

### Printing

The Products are not designed for surface printing and have various surface textures. 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 use of application tape with the Product is on a user test and approve basis only. The user should consider the following: (1) the type of liner used for the Product is not intended for electronic cutting; and (2) there is currently no recommended application tape that adheres properly to the face of the Product to hold cut shapes in place.

## Shelf Life and Storage

### Shelf Life

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

### Storage Conditions

- 40°F to 90°F (4°C to 32°C)
- Away from direct sunlight and high humidity
- Clean, dry area
- In the original container with end caps, in the plastic sleeve, stored horizontally, a maximum of six cartons high

## Cleaning and Maintenance

**NOTE:** Do NOT clean the Product until 30 days after installation.

Regular cleaning helps maintain the Product's appearance. Use only clean, nick-free tools and wipe gently only in one direction. Do not use ammonia, chlorine, organic-based cleaning products, polishing or cleaning compounds, 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 a squeegee.
- If there is heavier soiling, use a mild liquid detergent and water solution, then clear water, and then wipe gently with a cloth.
- Use spray window cleaning products only as needed for stubborn soil. Spray, then wipe gently with a cloth, then rinse with clean water and wipe gently with a cloth. Acceptable window cleaners for occasional use are 3M™ Glass Cleaner and Protector Concentrate #17, Windex® Original Glass Cleaner, Sprayway® Glass Cleaner Foaming Aerosol Spray, and a mixture of 10% IPA and 90% water.

## LEEDv4 Credits

This section describes some of the options for acquiring LEED credits using 3M™ FASARA™ 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 - The Products can be used to refinish salvaged, refurbished, or reused building materials

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

- The Products have been tested to and are in compliance with the General Emissions Evaluation (California Department of Public Health [CDPH] Standard Method V1.1 or V1.2).

### ID+C, BD+C EQ Credit, Daylight

- The Products can be used to enable daylight in enclosed spaces.

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

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

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

- The Products can be used to refinish salvaged, refurbished, or reused building materials.
- The Products have been tested to and are in compliance with the General Emissions Evaluation (CDPH Standard Method V1.1 or V1.2).

## BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION INFORMATION

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

EPD and/or LCA information is not available.

### 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

Take-back or recycling program for these Products are 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 building materials.

### Recycled Content

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

## 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 for 3M products go to [3M.com/SDS](http://3M.com/SDS). To request SDS by mail, or in case of an urgent situation, call 1-800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturer's 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.

## Warranty

### Products

3M™ FASARA™ Glass Finishes (the "Product(s)") are decorative films for use in vertical interior glass applications in commercial buildings ("Interior Applications"). Four of the Product designs can be used in vertical applications on the exterior of an outside glass wall (the "Exterior Applications").

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

Application		Warranty Period - Vertical Applications <sup>1</sup>
Interior Applications - New Designs	Excluding building perimeter glass	3 years
	Building perimeter glass	1 year
Interior Applications (including Illumina Silky-W & -S)	Excluding building perimeter glass	5 years
	Building perimeter glass (except Illumina Black [SH2BKIM] and Opaque Black [SH2BKOP])	3 years
Interior Applications (not recommended for building perimeter glass)	Illumina Black (SH2BKIM)	2 years
	Opaque Black (SH2BKOP)	
Exterior Applications	Matte Crystal 2 (SH2MACRX2) Milky Crystal (SH2MLCRX) Frost Matte (SH2FRMAX) Frost Sucre (SG2FRSCX)	3 years
Plastic application surfaces		3M Basic Product Warranty only (see above)

- Non-vertical applications are not warranted.**
- For a buyer's convenience, 3M may provide engineering or technical information, recommendations, installation instructions, and other information or materials relating to a 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 of the Product's shelf life or

installation without proper surface preparation; (e) exposed to excessive heat, humidity, dirt, or UV light; or (f) installed in a non-vertical application.

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.

## Technical Information:

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