

Fasara™ Glass Decorative Films

Product Bulletin

Product Description

Fasara™ films are decorative glass and window films. These films can be used to control both light and privacy. Fasara™ films have been developed with focus on interior design.

Product Line Window decoration 56 different designs available. 2 designs for outdoor decoration only.

For available color and pattern see appendix. Please contact the 3M Sales Office for stock available and lead times.

Product Characteristics

These are typical values for unprocessed product.
Contact your 3M representative for a custom specification.

Physical & Application

Material	Polyester		
Surface finish	Different, depending on designs.		
Thickness (film)	0.074 mm to 0.142 mm		
Adhesive type	Pressure sensitive, acrylic, removable		
Adhesive appearance	Clear		
Liner	Transparent, silicone coated polyester film		
Adhesion	7.0	[N/25 mm]	FTM 1 180° peel, substrate: glass; cond: 24h 23°C/50%RH
Application temperature	+12°C to +38°C	(air and substrate)	
Application method	Wet		
Applied film shrinkage	No detectable shrinkage		
Service temperature	-29°C to +80°C	(Mat Crystal 2 and Milky Crystal up to +65°C)	
Surface type	Flat and glass only		
Electronic Cutting	Not recommended		
Fasara™ removal	<ul style="list-style-type: none"> - Film can be removed without the use of heat and/ or chemicals. - After removing low adhesive residue could be remain. <p>No liability is given for ease or speed of removal of any graphic. Pay attention to adequate air and substrate temperature.</p>		
Shatter Prevention	Fasara™ films reduces the scattering and falling of broken pieces of glass in the event of glass breakage, and it satisfies the glass scattering prevention capability (A method, B method) according to the JIS A5759 (Japan code).		
UV Block	Fasara™ films block at least 99% of the UV light to reduce the discolouring (fading caused by sunlight) of furniture that is mainly caused by UV light. Performance characteristics are based on test data deemed reliable, but not warranted.		

Warranty	This warranty does not apply to film problems caused by defective application.	
	Indoor application	Film applied to the indoor side of exterior wall glass Vertical surface 3 years Non-vertical surface 2 years (except SH2SIIM, RE1SIAR 1 year)
	Indoor application	Film applied to indoor interior decoration (no direct UV light) Vertical surface 5 years Non-vertical surface 5 years
	Outdoor application	Films (Mat Crystal 2 and Milky Crystal only) applied to the outdoor side of exterior wall glass Vertical surface: Mat Crystal2 3 years and Milky Crystal 1 year Non-vertical surface: Mat Crystal2 1 year and Milky Crystal none
Durability	Indoor application	Film applied to the indoor interior and side of exterior wall glass Vertical surface 10 years Non-vertical surface 5 years
	Outdoor application	Mat Crystal 2 and Milky Crystal films only Vertical surface 4 years Non-vertical surface 2 years
Storage	Shelf life	2 years from the date on the original box Up to 2 years unprocessed, or processed within 1 year and apply within 1 year of processing.
	Storage conditions!	+4°C to +38°C, out of sunlight, original container in clean and dry area.
Flammability	Classification of the reaction to fire performance according to DIN EN 13501-1 is B-s1,d0 (except SH2SIIM, RE1SIAR, SH2MAOW).	

Limitations of End Uses

3M specifically does not recommend or warrant the following uses, but please contact us to discuss your needs to recommend other products.

Fasara™ applied to

- any other surface than glass
- other than flat glass
- other than interior applications (except Mat Crystal 2 and Milky Crystal)
- surfaces that are not clean and smooth
- inbetween two sheets of glass
- indoor side of locations where condensation continuously occurs

Important Notice

- 3M Architectural Market Department products are not tested against automotive manufacturer specifications!
- non vertical applications will have a significant decrease in durability!

Maintenance and Cleaning

If the surface of the film becomes dirty, leaving it could cause film to deteriorate sooner.

- Carefully wash with the water using a rubber squeegee or a damp, soft cloth (do not wipe with a dry cloth).
- Wipe only one direction on the film surface (do not wipe back and forth).
- Carefully use a rubber squeegee for window glass in particular moving over edges.

Remarks

This bulletin provides technical information only.

Important notice

All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the prevailing law.

Before using, the user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection therewith.

Safety

Caution: Risk of glass breakage due to thermal expansion.

When glass is exposed to direct sunlight, it absorbs heat. If covered by an opaque film, glass will absorb more heat. Heat absorption can create thermal stress, resulting in glass breakage (also called thermal cracking), which can cause personal injury and property damage. 3M specifically does not recommend using any of the following Products on glass that may be at risk for thermal expansion.

- Black (includes Nokto, Radius, Prism Noir, Shuttle Black, and Arpa Black)
- Silver (includes Prism Silver, and Astral Silver)

Application

For installation methods and procedures see instruction bulletin

Additional Information

Visit the web site of your local subsidiary at www.3M.eu/ArchitecturalMarkets for getting more:

- additional instruction bulletins
- a complete product overview about materials 3M is offering

Appendix Fasara™ Glass Decorative Films.

	Product	Product Number	Film Thickness [µm] (Excluding liner)
Gradation	Aerina	SH2FGAR	81
	Illumina	SH2FGIM	83
	Illumina g	SH2FGIM-G	81
	Illumina Silver	SH2SIIM	77
	Lontano	SH2FGLO	81
	Robe	SH2FGRB	85
	Tsurugi	SH2FGTG	81
	Venetian	SH2FGVN	85
Stripe	Arpa	SH2FGAP	79
	Arpa Black	SH2BKAP	81
	Fine	SH2FGFN	81
	Nokto	SH2CSNK	81
	Radius	SH2CSRD	81
	Seattle	SH2DGST	81
	Seattle Fine	SH2DGST-F	80
	Shutie	SH2FGST	81
	Shutie Black	SH2BKST	81
Border-Horizontal	Lattice	SH2FGLT	84
	Lattice g	SH2FGLT-G	79
	Leise	SH2FGLS	81
	Paracell	SH2FGPR	80
	Pixela	SH2FGPX	81
	Slat	SH2FGSL	88
	Slat g	SH2FGSL-G	83
Prism / Dot	Astral Silver	SH2CSAS	82
	Aura 9	SH2PCA9	81
	Cielo	SH2FGCE	81
	Kanon	SH2FGKN	79
	Luna 6	SH2PCL6	76
	Luna 9	SH2PCL9	83
	Prism Noir	SH2CSPN	78
	Prism Silver	SH2CSPS	78
	Shizuku	SH2FGSK	81
	Vista	SH2FGVI	81

	Product	Product Number	Film Thickness [µm] (Excluding liner)	
Fabric / Japan Paper	Altair	SH2FGAT	86	
	Ken-Un	SH2PTKU	97	
	Linen	SH2FGLN	78	
	Rikyu	SH2PTRK	103	
	Safu	SH2PTSF	95	
	Sagano	SH2PTSA2	89	
	Vega	SH2FGVG	86	
	Yamato	SH2PTYA	89	
	Frost / Mat	Chamonix	SH2EMCH	120
		Essen	SH2EMES	120
Fine Crystal		SH2FNCR	113	
Glace		SH2MAGL	85	
Lausanne		SH2EMLA	113	
Luce		SH2FGLU	85	
Mat Crystal 2		SH2MACRX2	126	
Mat Crystal i		SH2MACR-I	95	
Milky Crystal		SH2MLCRX	126	
Milky Milky		SH2MAMM	105	
Milky White		SH2MAML	77	
Opaque White		SH2MAOW	142	
Oslo		SH2EMOS	119	
Silver 1		RE1SIAR	74	

The above data are not guaranteed.
The product specifications may be changed without prior notice for further improvements.