

Scotchcal[™] ElectroCut[™] Graphic Film Series 7725SE

Product Bulletin

Product Description

These cast films are designed to create unique, special effect applications for windows. The dusted crystal film has the uniform appearance of etched glass, the frosted crystal ones have the appearance of sand-blasted glass. The films are for interior and exterior application.

Product Line Window decoration SC7725 SE-314 dusted crystal, translucent, matte, permanent

adhesive

SC7725 SE-323 frosted rose, translucent, matte, permanent

adhesive

SC7725 SE-324 frosted crystal, translucent, matte, permanent

adhesive

SC7725 SE-326 frosted green, translucent, matte, permanent

adhesive

SC7725 SE-327 frosted blue, translucent, matte, permanent

adhesive

SC7725 SE-331 frosted gold, translucent, matte, permanent

adhesive

Product Characteristics

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

Physical & Application

Material cast vinyl

Surface finish matte

Thickness (film) dusted films 50 μ m (0.05 mm)

frosted films 90 µm (0.09 mm)

Adhesive type solvent acrylic; pressure-sensitive

Adhesive appearance dusted films clear

frosted films clear

Liner dusted films transparent synthetic

frosted films transparent synthetic

Adhesion 17 N/25 mm FTM 1: 180° peel, substrate: glass; cond: 24 h

23°C/50%RH

Application method wet or dry

Applied shrinkage < 0.3 mm FTM 14

Application +10°C minimum (air and substrate)

temperature

Service temperature -29°C to +80°C

Surface type flat

Substrate type aluminum, glass, PMMA, PC*, ABS, paint

PC*: Polycarbonates might require drying with heat before use

Graphic removal Hard to remove from supported substrates.

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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)

Northern Europe Mediterranean area Africa & Gulf area dusted films 7 years 5 years 3 years

frosted films 7 years 5 years 3 years 7 years 5 years 3 years 3 years

Indoor application Film applied to the indoor interior decoration (no direct UV light, vertical surface)

Northern Europe Mediterranean area Africa & Gulf area

dusted films15 years15 years15 yearsfrosted film15 years15 years15 years

Outdoor application Film applied to the outdoor side of exterior wall glass (vertical surface)

Northern Europe Mediterranean area Africa & Gulf area 4 years 2 years 2 years

dusted films4 years3 years2 yearsfrosted film4 years3 years2 years

Durability Unprocessed film The durability data are given for unprocessed film and vertical surfaces only!

Indoor applicationNorthern EuropeMediterranean areaAfrica & Gulf areadusted films15 years15 years15 yearsfrosted film15 years15 years15 years

Outdoor application Northern Europe Mediterranean area Africa & Gulf area dusted films 7 years 5 years 3 years frosted film 7 years 5 years 3 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 +40°C, out of sunlight, original container in clean and dry area.

Piezo Ink Jet All variants of films series 7725 SE are piezo inkjet printable. The graphics manufacturer must test, approve

and accept all responsibility for satisfactory use.

Flammability Flammability standards are different from country to country. Please ask your local 3M contact for details.

SC7725 SE-314 and SC7725 SE-324 proved on ESG glass meet the required levels according to the DIN 5510 part 2 test judgment. Both films meet the best classes according to the DIN test 54837 which is S4 for the fire touching, SR2 for the smoke evaporation under fire and the ST2 class for the building of falling

drops from the burning material. Achieved level: S4 / SR2 / ST2

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.

Graphics applied to

- flexible substrates incl. Panaflex[™] and Panagraphics[™].
- low surface energy substrates or substrates with low surface energy coating.
- other than flat or simply curved surfaces.

Note: When used on more difficult surfaces stress relief cuts are recommended.

- painted or unpainted wallboards, gypsum boards and wallpapers.
- stainless steel.
- in between two sheets of glass.
- substrates with tendency of outgasing.
- surfaces that are not clean and smooth.
- surfaces with poor paint to substrate adhesion.

Graphic removal from

signs or existing graphics that must remain intact.

Graphics subjected to

gasoline vapors or spills.

Important Notice

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

Graphics Manufacturing

Shipping finished graphics

Flat, or rolled film side out on 130 mm (5 inch) or larger core. These methods help to prevent the liner from wrinkling or application tape, if used, from popping off.

Converting Information

Based upon cutting evaluations the minimum height for text is 10 mm using upper and lowercase Helvetica Medium. The stroke width should not be lower than 1 mm.

Electro Cutting

The variable characteristics of electronically controlled cutting equipment require users to verify their specific requirements.

Sharpness of knife blade

Dull blades impart a serrated look to the edge of the cut film.

Weight of knife blade

The ideal weight slightly scores the liner. Too little weight does not cut completely through the film and the adhesive. Excessive weight cuts the liner and causes the blade to drag, accelerating wear and creating a serrated cut edge on the film.

Weeding

The excess film should be weed (removed) as soon after cutting as practical. This is to minimize the effect of possible adhesive flow.

Temperature and relative

humidity

Temperature and relative humidity are minor considerations, but avoid extreme or rapid fluctuating conditions.

Roll storage Stor

Store the film in the same environment as the cutting equipment.

Further information

For more details refer to our instruction bulletin 4.1 'Sheeting, Scoring, Film Cutting', please.

Maintenance and Cleaning

Use a cleaner designed for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline). Refer to Instruction Bulletin 6.5 'Storage, handling, maintenance and removal of films and sheetings', for general maintenance and cleaning information.

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.

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

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