

Commercial Solutions Division Scotchcal[™] ElectroCut[™] Graphic Film 7725

Product

3M™ Scotchcal™ ElectroCut™ Graphic Film 7725SE-300 is designed to create unique, special effect applications. The dusted crystal film has the uniform appearance of etched glass, the frosted crystal ones **Description** have the appearance of sand-blasted glass.

Product Line Window decoration	n 7725 SE-314	dusted crystal, translucent, matte, permanent adhesive.
	7725 SE-323	frosted rose, translucent, matte, permanent adhesive.
	7725 SE-324	frosted crystal, translucent, matte, permanent adhesive.
	7725 SE-326	frosted green, translucent, matte, permanent adhesive.
	7725 SE-327	frosted blue, translucent, matte, permanent adhesive.
	7725 SE-331	frosted gold, translucent, matte, permanent adhesive.

Product **Characteristics**

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

Physical & Application Material cast vinyl Surface finish matte Thickness (film) 50 µm (0.05 mm) frosted 90 µm (0.09 mm) Adhesive type solvent acrylic, pressure-sensitive Adhesive appearance white Liner transparent synthetic Adhesion 17 N/25 mm 180° peel, substrate: glass; cond: 24 h 23°C/50%RH Application method wet or dry **FTM 14** Applied shrinkage < 0.3 mm Application temperature +10°C for flat surfaces (minimum air and substrate) -29°C to +80°C Service temperature (not for extended periods of time at the extremes) (after application) Surface type flat aluminium, glass, PMMA, PC*, ABS, paint Substrate type *Might require drying with heat before use Graphic removal Hard to remove from supported substrates. The values above are the results of illustrative lab test measurements and shall not be considered as a commitment from 3M. Storage Shelf life Use within two years from the date of manufacture on the sealed original box. Use within one year after opening the box. Storage conditions +4°C to +40°C, out of sunlight, original container in clean and dry area. The shelf life as defined above remains an indicative and maximum data, subject to many external and noncontrollable factors. It may never be interpreted as warranty.

Durability

The durabilities mentioned in the table below are the results of illustrative lab tests. The values show the best performance expected from these products, provided that the film will be processed and applied professionally according to 3M's recommendations.

The durability statements do not constitute warranties of quality, life and characteristics. The durability of products is also influenced by:

- the type of substrate and thorough preparation of the surface (with Isopropylalcohol)
- application procedures
- environmental factors
- the method and the frequency of cleaning

Unprocessed film	The following durability data are given for unprocessed film only!					
Climatic zones	Graphic durability is largely determined by the climate and the angle of exposure. Find below a table showing the durability of a product according to the angle of exposure and the geographical location of the application.					
	Zone 1	Northern Europe, Italy (north of Rome), Russia				
	Zone 2	2 Mediterranean area without North Africa, South Africa				
	Zone 3	Gulf area, Africa				
Exposure types	Vertical:	The face of the graphic is ±10° from vertical.				
	Interior:	Interior means an application inside a building without direct exposure to sunlight.				
Vertical outdoor exposure	Zone 1	Zone	2	Zone 3		
•	7 years	5 years	i	3 years		

Vertical outdoor exposure	Zone 1	Zone 2	Zone 3
	7 years	5 years	3 years
Interior application	Zone 1	Zone 2	Zone 3
interior	15 years	15 years	15 years

 3M™ Performance
 In addition, 3M provides a guarantee/warranty on a finished applied graphic

 Guarantee and MCS™
 within the framework of 3M™ Performance Guarantee and/or 3M™ MCS™

 Warranty
 warranty programs.

 For detailed graphic construction and application options along with specific

 Warranty periods, please see the Warranty matrices and Warranty information on

 3M Graphic Solutions/Warranties.

 Visit www.3mgraphics.com

 For getting more details about 3M's comprehensive

 graphic solutions.

Limitations of End Uses

needs to recommend other products.

Graphics applied to

- flexible substrates incl. 3M[™] Envision[™] Flexible Substrate FS-1 and 3M[™] Panagraphics[™] III Wide Width Flexible Substrate.

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

- low surface energy substrates or substrates with low surface energy coating.
- painted or unpainted rough wallboards, gypsum boards and wallpapers.
- stainless steel.
- substrates with tendency of outgassing.
- surfaces that are not clean and smooth.
- surfaces with poor paint to substrate adhesion.
- other than flat or simply curved surfaces.
- Note: When used on more diffucult surfaces stress relief cuts are recommended. - in between two sheets of glass

Graphic removal from Graphics subjected to

- signs or existing graphics that must remain intact.
- gasoline vapors or spills.

Important Notice - 3M Commercial Solutions products are not tested against automotive manufacturer specifications! - Non vertical applications will have a significant decrease in durability! - To avoid color variations all pieces of applied film of one colored area should be processed out of one lot of material. Flat, or rolled film side out on 130 mm (5 inch) or larger core. These methods help to prevent the liner from Graphics wrinkling or application tape, if used, from popping off. Manufacturing Based upon cutting evaluations the minimum height for text is 25 mm using upper and lowercase Helvetica Converting Medium. The stroke width should not be lower than 1 mm. Information **Electronic 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. The excess film should be weed (removed) as soon after cutting as practical. This is to minimize the effect of Weeding possible adhesive flow. Temperature and relative Temperature and relative humidity are minor considerations, but avoid extreme or rapid fluctuating humidity conditions. Roll storage 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. >Instruction Bulletin 4.1'Sheeting, Scoring, Film cutting' Application

See product bulletin ATR 'application tape recommendations' for information about selection and use of suitable application tapes for this product, please.

> Product Bulletin Application Tape Recommendations

Refer to Instruction Bulletin 5.1 'select and prepare substrates for graphic application', for general application information.

>Instruction Bulletin 5.1 'select and prepare substrates for graphic application'<

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).

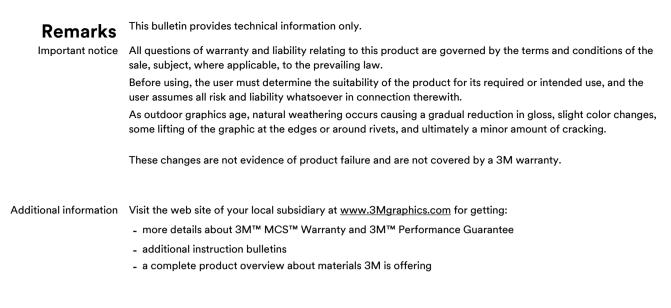
Refer to Instruction Bulletin 6.5 'storage, handling, maintenance and removal of films and sheetings', for general maintenance and cleaning information.

>Instruction Bulletin 6.5 'Storage, Handling, Maintenance and Removal of Films and Sheetings'

Important Safety Remark

Application to glass

The application of colored or printed film onto glass with sunlight exposure can lead to glass breakage through thermal expansion of the glass. The local conditions must be examined for the danger of glass break by uneven heat absorption through sun exposure. Type of glass (insulation glass, float glass, LSG, toughened safety glass, semi-tempered glass, etc.), glass dimension, joint condition, flexibility of the sealant, quality of the edge finishing, geographical orientation and partial shadow during sun exposure are the determining factors. Light color designs and application on the outside of the window are to be preferred. A free nonapplied framework of 4 mm around the entire window front can help to dissipate the absorbed warmth. According to common knowledge a thermal crack can occur at temperature differences of approx. 130°C (toughened safety glass), approx. 40°C (float glass) or approx. 110°C (semi-tempered glass). Coldest place is usually under the framework in the embedded joined window part, the warmest place is typically on the darkest place in the format. Because of the many above mentioned factors, glass breakage cannot be fully predicted, therefore 3M does not accept liability for glass breakage when using this film for window graphics.





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