

Commercial Solutions Division 3M[™] Scotchcal[™] ElectroCut[™] Fluorescent Film

7725 SE-400

Product Description

3M[™] Scotchcal[™] ElectroCut[™] Fluorescent Film Series 7725-400 are designed to create unique, special effect applications.

Fluorescent films are extremely conspicuous under all daylight conditions and provide attention value desired under conditions of poor visibility, particular at dawn or dusk.

Product Line Electrocut	7725 SE-404	fluorescent yellow-orange, opaque, glossy, permanent adhesive.
	7725 SE-405	fluorescent yellow, opaque, glossy, permanent adhesive.
	7725 SE-406	fluorescent green, opaque, glossy, permanent adhesive.
	7725 SE-407	fluorescent blue, opaque, glossy, permanent adhesive.
	7725 SE-413	fluorescent fuchsia, opaque, glossy, permanent adhesive.
	7725 SE-414	fluorescent red-orange, opaque, glossy, permanent adhesive.
Droduct These are indicative val	lues for unprocessed pro	ducts.

Product Characteristics

Material cast vinyl Physical & Application Surface finish glossy Thickness (film) 90 µm (0.09 mm) Adhesive type solvent acrylic, pressure-sensitive Adhesive appearance white Liner Kraft paper FTM 1: 180° peel, substrate: glass; cond: Adhesion approx. 17 N/25 mm 24 h 23°C/50%RH Application method wet or dry Applied shrinkage < 0.3 mm **FTM 14** +10°C for flat surfaces Application temperature (minimum air and substrate) +10°C for curved to corrugated surfaces with and without rivets Service temperature -40°C to +107°C (not for extended periods of time at the extremes) (after application) Surface type flat to simple curved

Contact your 3M representative for a custom specification.

	Substrate type	aluminum, glass, PMMA, PC*, ABS, paint *Might require drving with beat before use					
	Graphic removal	*Might require drying with heat before use Hard to remove from supported substrates.					
	Important quality notice! SC7725 SE-400	Hard to remove from supported substrates. Freshly applied film of this series might build haze or dark spots on its surface. This is a reversible process. It is caused by uneven UV-light radiation and will disappear with more sunlight exposure to the surface activating the fluorescent					
	The values above are the re commitment from 3M.	pigments. esults of illustrat	tive lab test me	asurements an	d shall not be considered as a		
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 The shelf life as defined ab controllable factors. It may	ove remains an	indicative and	maximum data	tainer in clean and dry area. , subject to many external and non-		
Flammability	Flammability standards are different from country to country. Ask your local 3M contact for details, please.						
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 3M™ Surface Preparation System)						
	- application procedures						
	- environmental factors						
	- the method and the free	quency of cleani	ing				
	Unprocessed film	The following	durability data	are given for u	nprocessed film only!		
	Climatic zones Graphic durability is largely determined by the climate and the angle of exposur 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 Mediterranean area without North Africa, South Africa Zone 3 Gulf area, Africa					
	Exposure types	Vertical:	rtical: 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	Zo	ne 2	Zone 3		
	colors	18 months	12 r	nonths	6 months		
	Interior application	Zone 1	Zo	ne 2	Zone 3		
	interior	12 years	12 y	/ears	12 years		
	3M™ Performance Guarantee and MCS™ Warranty	In addition, 3M provides a guarantee/warranty on a finished applied graphic within the framework of 3M [™] Performance Guarantee and/or 3M [™] MCS [™] warranty programs. For detailed graphic construction and application options along with specific Warranty periods, please see the Warranty matrices and Warranty information on <u>3M Graphic Solutions/Warranties</u> . Visit <u>www.3mgraphics.com</u> for getting more details about 3M's comprehensive graphic solutions.					

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

- 2nd surface to 3M[™] Panagraphics[™] III Wide Width Flexible Substrate.
- low surface energy substrates or substrates with low surface energy coating.
- painted or unpainted rough wallboards, gypsum boards and wallpapers.
- substrates with tendency of outgassing.
- surfaces that are not clean and smooth.
- surfaces with poor paint to substrate adhesion.

- signs or existing graphics that must remain intact.

- other than flat or simply curved surfaces.
 - Note: When used on more diffucult surfaces stress relief cuts are recommended.

Graphic removal from Important Notice

- 3M Commercial Solutions products are not tested against automotive manufacturer specifications!
- Non vertical applications will have a significant decrease in durability!

Graphics Manufacturing

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.

Shipping finished graphics

Converting Information	Based upon cutting evaluations the minimum height for text is 25 mm using upper and lowercase Helvetica Medium. The stroke width should not be lower than 1 mm.				
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.				
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	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.				
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	Refer to Instruction Bulletin 5.7 'Application Wet Method for Translucent, Screen Printed and Cut Graphics', for general application information.				
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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).				
Ū	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 non-applied 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.

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.				
	As outdoor graphics age, natural weathering occurs causing a gradual reduction in gloss, slight color changes, some lifting of the graphic at the edges or around rivets, and ultimately a minor amount of cracking.				
	These changes are not evidence of product failure and are not covered by a 3M warranty.				
Additional information	Visit the web site of your local subsidiary at <u>www.3Mgraphics.com</u> for getting:				
	 more details about 3M[™] MCS[™] Warranty and 3M[™] Performance Guarantee additional instruction bulletins 				
	- a complete product overview about materials 3M is offering				
	Responsible for this technical bulletin 3M Controltac Envision Scotchcal Comply MCS and				



Commercial Solutions Division Hermeslaan 7 1831 Diegem, Belgium Responsible for this technical bulletin

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