3M[™] Scotchcal[™] Opaque Mirror Graphic Film 7755 SE-420, 7755 SE-431

Product Bulletin

Product These special effect films are designed to either give a mirror silver or a mirror gold appearance.

Description

Product Line	Electrocut	SC7755 SE-420	silver mirror, opaque, high-gloss, permanent adhesive.			
	Electrocut and screen	SC7755 SE-431	silver gold, opaque, high-gloss, permanent adhesive.			
	printing					
Product	These are typical values for unprocessed products.					
Characteristics	Contact your 3M representative for a custom specification.					
Physical & Application	Material	PVDF				
,	Surface finish	high-gloss				
	Thickness (film)	7755 SE-420	80 μm (0.08 mm)			
		7755 SE-431	110 µm (0.11 mm)			
	Adhesive type	solvent acrylic; pres				
	Adhesive appearance	7755 SE-420	clear			
	Linea	7755 SE-431	yellow			
	Liner	transparent synthet	C FTM 1: 180° peel, substrate: glass; cond: 24 h 23°C/50%RH			
	Adhesion	15 N/25 mm	Thirt. Too peer, substrate. glass, cond. 24 IT 25 6/50 /mit			
	Application method	dry only!				
	Applied shrinkage	< 0.4 mm	FTM 14			
	Application temperature	+4°C minimum (air and substrate)				
	Service temperature	-29°C to +80°C flat				
	after application					
	Surface type					
	Substrate type	aluminum, glass, PMMA, ABS, paint				
	Graphic removal	Hard to remove from supported substrates. The manufacturing process might generate some visual effects.				
	Important quality notice!					
		Impressions as very tiny irregular spots on the surface are possible as well as				
		milky color stripes. Those type of defects are excluded from any quality complaint.				
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.				

Flammability Flammability standards are different from country to country. Ask your local 3M contact for details, please.

Durability	Unprocessed film	The following durability data are given for unprocessed film only!				
-	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. Visit <u>www.3mgraphics.com</u> for getting more details about 3M's comprehensive graphic solutions. 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 Mediterranean area without North Africa, South Africa Zone 3 Gulf area, Africa 				
	Climatic zones					
	Exposure types	Vertical	face of graphics	The face of the gra ±10° from vertical		
		Interior:	Interior means an a to sunlight.	application inside a building without direct exposu		
	Vertical outdoor	Zone 1	Zone 2	2 Zone 3	ł	
	exposure SC7755 SE-420 SC7755 SE-431	7 years 4 years	5 years 3 years			
	Interior application	Zone 1	Zone 2	2 Zone 3	}	
	interior	7 years	7 years	s 7 years		
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. Panagraphics[™]. low surface energy substrates or substrates with low surface energy coating. other than flat surfaces. stainless steel. substrates with tendency of outgasing. surfaces that are not clean and smooth. 					
Graphics subjected to	- gasoline vapors or spills.					
Important Notice Graphics	 3M Commercial Graphics Division products are not tested against automotive manufacturer specifications! Non vertical applications are neither recommended nor warranted. 3M accepts no liability for glass breakage. See instruction bulletin 5.1 for details. The use of these films in multi-layer constructions is not recommended. Graphic protection can improve the appearance, performance and durability of your graphic. Any graphic exposed to abrasive conditions (including vehicles), harsh cleaners or chemicals must include graphic 					
Manufacturing	protection in order to be wa					
When to use an overprint clear or overlaminate	See instruction bulletin GPO 'graphic protection options' for further information about selection and use of protective overlaminates and printable clears.					
		t Bulletin Graphic Protection Options <				
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.			
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'<			
Converting Information	Formulations and processing conditions can affect ink durability. Refer to the Product and Instruction Bulletins for your ink for limitations and proper usage. Graphic protection can improve the appearance, performance and durability of your graphic.			
Important!	Only SC7755 SE-431 (gold mirror) can be screen printed! Printing on SC7755 SE-420 is not recommended.			
Screen Printing	A clear coat also prevents chalking on unprinted films. Use equipment designed to handle high viscosity materials and make sure the coating is evenly applied to the specifications given in the clear's Instruction Bulletin.			
Abrasion and Loss of Gloss	Abrasion damage and loss of gloss are not covered by any 3M warranty. This is considered normal wear and tear.			
Notice!	Film SC7755SE is heat sensitive. We recommend air drying of solvent printed graphics.			
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 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.				
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 				
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