



3M™ Scotchcal™ ElectroCut™ Graphic Film Series 5525SE

Description

3M™ Scotchcal™ ElectroCut™ Graphic Film Series 5525SE are medium term, translucent calendered vinyl films for use in creating window graphics and internally illuminated displays on flat, clear surfaces:

- Scotchcal 5525SE-314 Haze film has the uniform appearance of etched glass
- Scotchcal 5525SE-324 Sandblast film has the uniform appearance of sandblasted glass

Limitations of End Uses

The following uses and applications are specifically NOT warranted.

- Screen printing on Sandblast and Haze films
- Application of Haze and/or Sandblast film between two sheets of glass
- Application to corrugated surfaces
- Exposure to petroleum products or solvents
- 3M Commercial Graphics Division products are not tested against automotive manufacturer's specifications and are, therefore, not warranted for use in fabricating graphics for automotive Original Equipment Manufacturers (OEM).

Product Data

Physical Property	Metric Units
These values are typical and are not intended for use in specifications	
Dimensional stability (FTM 14) (both 5525SE 314 and 324)	< 0.4 mm
Temperature range after application (both 5525SE 314 and 324)	-40 to +80°C
Tensile strength, minimum (DIN EN ISO 527)	md > 17 N/mm ² cd > 15 N/mm ²
5525 SE-314 Haze	md > 15 N/mm ² cd > 12 N/mm ²
5525 SE-324 Sandblast	cd > 12 N/mm ²
Thickness of films (ISO 4593)	
5525 SE-314 Haze	0.075 ± 0.005 mm
5525 SE-324 Sandblast	0.080 ± 0.005 mm

Adhesion (FTM1)	
Substrate	Metric Units N/25 mm
Glass (24 hrs)	
5525 SE-314 Haze	> 12 N/Inch
5525 SE-324 Sandblast	> 12 N/Inch

FTM (Finat Test Method) refers to test methods listed by FINAT, the Association of European Tape Manufacturers.

Chemical Resistance

- Resist mild detergents.
- Excellent water resistance.

Translucency values

Property	Description
Spectral Tau value	
5525 SE-314	0,87
5525 SE-324	0,69
Tau value at 550 nm	
5525 SE-314	0,88
5525 SE-324	0,71

Characteristics

Property	Description
Adhesive	
5525 SE-314	Permanent pressure sensitive
5525 SE-324	
Adhesive colour (both)	Clear
Liner	
5525 SE-314	Kraft Paper / 120 g/m ²
5525 SE-324	Kraft Paper / 120 g/m ²
Application substrate	Glass, Acrylic, Polycarbonate
Minimum application temperature (air, film, substrate)*	> +10 °C

Note: The ISO number refers to standards of the International Standards Organization.

**For applications nearing the minimum temperature range, please contact your local technical service representative to confirm suitability of application*

Effective Performance Life

The effective performance life for 3M™ Scotchcal™ ElectroCut™ Graphic Film Series 5525SE is based on field experience and exposure tests conducted throughout Europe. When the graphics are processed and used according to 3M recommendations, they should have the performance life shown in the charts below. The actual performance depends on the following:

- Selection and preparation of the substrate
- Application methods
- Exposure conditions
- Cleaning methods
- Vertical Exposure

5525SE- 314 and 5525SE- 324			
3M™ MCS™ Warranty	Zone 1	Zone 2	Zone 3
Exterior	3 years	2 years	1 year
Inside of outside window	4 years	3 years	2 years
Interior (no direct UV light)	5 years	5 years	5 years

Zone 1: Northern and Central Europe

Zone 2: Mediterranean Europe

Zone 3: Northern Africa and Middle East

Shelf Life, Storage and Shipping

Follow these guidelines to store and ship these films and the processed graphics.

- The shelf life of the films cannot exceed two years from the date of receipt from 3M.
- Store the films in a clean, dry area, out of direct sunlight, and at less than 38°C.
- Ship the finished graphic lying flat or in a roll. To roll the graphic, wrap it film-side out onto a core that is 15 cm or larger in diameter. These methods help prevent the film and premask from wrinkling or popping off the liner.

Premasking and Prespacing

The 3M Premasking or Prespacing Tape you use depends on the type of graphic produced. For graphics that have large amounts of exposed liner, use a prespacing application tape. If there is very little exposed liner, use a premasking application tape:

Prespacing Tape: SCPS-100

Premasking Tape: SCPM-19

Removal

Series 5525SE films are warranted to be removable with no adhesive residue using no or little heat for the removal process.

Important Notice

The 3M products described in this publication are covered by a 3M warranty and limitation of liability.

3M's warranty provides that if 3M finds that goods are defective in material or workmanship they will be replaced or the price refunded at 3M's option but note that 3M does not accept liability for other direct losses (except for personal injury or death) or consequential losses relating to defective products or from information supplied by 3M.

Purchasers and users of 3M products, and not 3M supplying companies, are always solely responsible for deciding on the suitability of the 3M product for their required or intended use.

Health & Safety

Refer to the package label and the Material Safety Data Sheet for health, safety, and handling information on the products referenced in this bulletin. For 3M products, if necessary, you may contact our Toxicology/Product Responsibility Department. 01344 858000. When using any equipment, always follow the manufacturers' instructions for safe operation.

3M Related Literature

- Surface Preparation and Application Instructions (5.1, 5.5, 5.7)
- Design of Graphics (2.1)
- Cleaning, Maintenance and Removal (6.5)

Commercial Graphics Group
3M United Kingdom PLC
3M Centre, Cain Road
Bracknell, Berkshire, RG12 8HT
Tel: 01344 857850
Fax: 01344 857939
e-mail: commgraphics.uk@mmm.com
www.mmm.com/uk
www.3m.com/uk/graphicsolutions

Commercial Graphics Group
3M United Kingdom PLC
3M House, 28 Great Jackson Street
Manchester, M15 4PA
Tel: 0161 237 6394
Free Fax: 0800 378127
e-mail: commgraphics.uk@mmm.com
www.mmm.com/uk
www.3m.com/uk/graphicsolutions

Commercial Graphics
3M Ireland (Dublin)
The Iveagh Building
The Park, Carrickmines, Dublin 18, Ireland
Tel: 00 353 1 280 3555
Fax: 00 353 1 280 3509
e-mail: commgraphics.uk@mmm.com
www.mmm.com/uk
www.3m.com/uk/graphicsolutions