

Product Description

- Cast adhesive backed film, permanent adhesive
- Same color on both sides
- Designed for electronically cut graphics
- Expected Performance Life (unwarranted period for unprinted film with no graphic protection, applied to a flat, vertical outdoor surface under Northern European climate conditions):
 - Colors 8 years
 - Transparent 5 years
 - Metallic 5 years

Note: This document uses hyperlinks. Please follow the links for additional information.

Recommended types of graphic and use

- Indoor and outdoor graphics
- Vehicle graphics
- Prespaced and electronically cut graphics
- Point-of-purchase graphics and displays, emblems, striping or labels
- Two-way window markings (same color on both sides)

Surface types

flat	rivets	simple curves	compound curves	corrugations	deep channels and recesses
✓	✓	✓			

Product Line

Product name	Description
3M™ Scotchcal™ ElectroCut™ Graphic Film 7125-X	X = color code, opaque, glossy; black, white matte. Wide selection of colors.

Important note: Some colors are less opaque than other colors. Before using, the user must determine the suitability of the film for its required or intended use.

Recommended Compatible Products

[Follow the link for further information about selection and use of compatible protective overlaminates and printable clears.](#)

[See instruction bulletin 'AT-1' for information about selection and use of suitable application tapes for this product, please.](#)

Physical Properties

The values displayed are the results of illustrative lab test measures made according to the indicated external norm and shall not be considered as a commitment from 3M.

Characteristic	Value														
Material	Cast vinyl														
Thickness ISO 534	Film without adhesive: 0.05 ± 0.005 mm Film with adhesive: 0.063 ± 0.005 mm to 0.09 ± 0.005 mm														
Adhesive	Acrylic, pressure-sensitive														
Adhesive appearance	Clear														
Indicative values FTM1, 24 h 23°C/50%RH	<table> <tr> <td>ABS</td> <td>17.8 ± 2 N/25mm</td> </tr> <tr> <td>Acrylic</td> <td>17.8 ± 2 N/25mm</td> </tr> <tr> <td>Polycarbonate</td> <td>17.8 ± 2 N/25mm</td> </tr> <tr> <td>Urethane paints</td> <td>17.8 ± 2 N/25mm</td> </tr> <tr> <td>Aluminum</td> <td>35.6 ± 2 N/25mm</td> </tr> <tr> <td>Chrome</td> <td>22.2 ± 2 N/25mm</td> </tr> <tr> <td>Polypropylene</td> <td>13.3 ± 2 N/25mm</td> </tr> </table>	ABS	17.8 ± 2 N/25mm	Acrylic	17.8 ± 2 N/25mm	Polycarbonate	17.8 ± 2 N/25mm	Urethane paints	17.8 ± 2 N/25mm	Aluminum	35.6 ± 2 N/25mm	Chrome	22.2 ± 2 N/25mm	Polypropylene	13.3 ± 2 N/25mm
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Applied shrinkage FTM 14	< 0,4 mm														
Liner	7125-10, 7125-20: Blue Kraft paper All other colors: White Kraft paper														
Application method	Wet or dry														
Substrate types	Aluminium, glass, PMMA, PC*, ABS, paint** The application of film onto glass can cause glass break by uneven heat absorption through sun exposure. 3M does not accept liability for glass breakage. * Polycarbonate substrates may require oven drying before use due to the outgassing of moisture from the polycarbonate causing the film to bubble. Refer to the manufacturer's instructions. ** Check adhesion to powder-coated or water-based paints Some composites and plastics tend to outgas. Test composites and plastics prior to application.														
Application temperature	10 – 38 °C Flat, simple curves, rivets														
3M recommends application at +18°C to +22°C for optimum ease of application.															
Temperature range after application	-40 to +107°C (not for extended periods of time at the extremes)														
Chemical Resistance	<ul style="list-style-type: none"> • Resists mild alkalis, mild acids, and salt • Excellent resistance to water (does not include immersion) 														
Flammability	Flammability standards are different from country to country. Ask your local 3M contact for details, please. <u>Follow the link to check for available fire certificates.</u>														

Warranty Information

3M Basic Product Warranty

3M Graphics Products are warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in its applicable 3M Graphics Product Bulletin and as further set forth in the 3M Graphics Warranties Bulletin.

3M™ Performance Guarantee and MCS™ Warranty

3M provides a guarantee/warranty on a finished applied graphic within the framework of 3M™ Performance Guarantee and/or 3M™ MCS™ warranty programs.

[Follow the link for a complete list of compatible products that are approved by 3M for use with the base film covered in this Bulletin and used for the creation of a graphic that may be eligible for the 3M™ MCS™ Warranty or 3M Performance Guarantee.](#)

Limited Remedy

Unsuitable End Uses

3M recommended product end uses are listed in each 3M graphics product bulletin. End uses not listed in the applicable 3M Graphics Product Bulletins are typically not eligible for 3M Graphics Warranties. For non-recommended and/or non-warranted end uses or applications, users must test and approve the end uses or applications, assume any associated risks, and acknowledge that 3M has no liability for such end uses or applications. Please contact your 3M representative with any questions about graphic applications, end uses, and warranties.

Limitations of liability

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. 3M Commercial Solutions products are not tested against automotive manufacturer specifications!

Graphic Manufacturing

Sheeting, Scoring and Film Cutting

[See 3M Instruction Bulletin 4.1 for Sheeting, Scoring and Film Cutting details.](#)

To avoid color variations all pieces of applied film of one colored area should be processed out of one lot of material.

The color appearance of metallic film is dependent on the viewing angle to the product! Therefore the job design should be done that all parts of metallic film are applied the same orientation.

Application and Installation

In addition to other 3M Bulletins specified in this document, the following Bulletins provide details that you may need to successfully apply a graphic.

[See 3M Instruction Bulletin 5.1 to obtain general information about the selection and preparation of substrates for graphic applications](#)

Maintenance, Cleaning and Removal

Use a cleaner designed for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline).

These films are not intended to be removed. In some cases they can be removed, but with great difficulty and could damage the substrate. If they are removed, they may leave significant adhesive residue.

See 3M Instruction Bulletin 6.5 for information about storage, handling, maintenance and removal of films and sheetings.

Shelf Life, Storage and Shipping

The shelf life as defined below remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as warranty.

The shelf life is never more than 3 years from the date of manufacture on the original box. If you process the film, the shelf life is changed to 1 year from the processing date, but not later than the 3-year maximum from the manufacturing date.

Storage conditions: +4°C to +38°C, out of sunlight, original container in clean and dry area.

Shipping finished graphics: Flat or rolled printed side out on 6 inch (15 cm) or larger core.

Bring the film to room temperature before use.

Health and Safety

When handling any chemical products, read the manufacturer's container labels and the Safety Data Sheets (SDS) for important health, safety and environmental information.

Follow the link to obtain SDS sheets for 3M products on [3M.com/SDS](https://www.3m.com/SDS).

Follow the link to obtain information about substances of very high concern (SVHC).

IMPORTANT! When using any equipment, always follow the manufacturer's instructions for safe operation.

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