



3M™ Scotchcal™ Clear View Graphic Film 8150

Product Description

Scotchcal Clear View graphic film 8150 is a clear, conformable, screen or ink jet printable cast PVC film, with a removable adhesive. Ideal for applications to glass and clear acrylic where clear vision is required on the unprinted areas of the graphic on shop windows, vehicle windows, or interior partitions to implement creative design ideas combined with functional benefits.

Product Characteristics

Physical & Application

Material	Cast vinyl
Surface Finish	Gloss
Film Thickness	0.05mm (50µ)
Adhesive type	Transparent, pressure sensitive, acrylic
Liner	Transparent, synthetic
Adhesion	12 (N/25mm). FTM1: 180° peel, substrate; glass; cond: 24h 23°C/50% RH
Application method	Wet (water and detergent) application method only, is recommended
Applied shrinkage	<0.1 mm FTM 14
Application temperature	+10°C minimum (air and substrate)
Service temperature	-50°C to +90°C
Surface Type	Flat and simple curved surfaces
Substrate type:	Glass, PMMA, Polycarbonates (polycarbonates may require drying with heat before use)
Graphic Removal	Removable without heat or chemicals from noted substrates. No guarantee is given for ease or speed of removal of any graphic, which will be dependent upon air and substrate temperatures.

Durability

Unprocessed film	7 Years for exterior, vertical applications.
Shelf Life	The shelf life of the film is 2 years and should be applied within 2 years of the receipt of film if unprocessed. Processed film should be applied within 1 year of processing and within 2 years of receipt of the film.
Storage conditions	<ul style="list-style-type: none">• 4° to 40°C• Out of sunlight• In clean dry area• In original container• Condition the film to print room temperature before using

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.

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| Graphics applied to | <ul style="list-style-type: none">- Flexible substrates, including 3M Panaflex and 3M Panagraphics- Low surface energy substrates or substrates with low surface energy coating- Other than flat surfaces or simple curved surfaces- Painted or unpainted wallboards, gypsum board and wallpapers- Other than flat or simple curved surfaces |
| Graphic removal from | <ul style="list-style-type: none">- Substrates with coatings, (i.e. anti-reflection, anti-scratch), coatings may be damaged during film removal |
| Graphics subjected to | <ul style="list-style-type: none">- Petroleum vapours or spills- Graphics made for automotive Original Equipment Manufacturers (OEM)- Non vertical applications will have a significant decrease in durability |

Important Notice

3M accepts no liability for glass breakage due to temperature differences across the glass, which can be caused by sunlight on dark areas of the graphic. Glass size, thickness, quality of cut, edge treatment, tinting and frame design also greatly affect the likelihood of breakage.

Graphic Manufacturing

When to use an overprint clear or overlaminate

– 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 protection in order to be warranted

Recommended overlaminate

– 3M™ Scotchcal™ Clear View Film 8150

Shipping Finished graphics

Flat, or rolled with printed side out on 130mm (5inch) or larger core.

Converting Information

Total Ink Coverage

The maximum recommended total ink coverage for this film is 270%. Exceeding this limit can result in media characteristic changes; longer drying times, failure of the overlaminate and/or poor graphic performance.

Drying Times

A minimum drying time of 24 hours is recommended before carrying out any further processing.

It is recommended that the graphic is dried flat, or in a loosely wind upright roll. Inadequate drying can result in graphic failure. Poorly dried film may also become soft and stretchy and the film's adhesive can be affected.

Application Tapes

The use of application tape is neither recommended nor needed.

Application

Refer to Instruction Bulletin: Wet Application Instructions for 3M™ Scotchcal™ Clear View Graphic Film 8150.

Maintenance and Cleaning

Refer to bulletin 6.5 Storage, Handling, Maintenance and Removal of Films and Sheeting.

! CAUTION

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 on 01344 858000.

When using any equipment, always follow the manufacturers' instructions for safe operation.

Warranty and Limited Remedy

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.

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