

Product Description






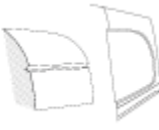
- Cast adhesive backed film for Solvent, UV, and Latex Inkjet printing
- Designed to adhere to Low Surface Energy (LSE) plastics
- This film utilizes 3M™ Controltac™ and 3M™ Comply™ technology
 Controltac™ minimizes the initial contact area of the adhesive for easy sliding, tacking, snap-up and repositioning
 Comply™ technology allows air to exit through air release channels to the edge of the graphic
- Expected Performance Life (unwarranted period for unprinted film with no graphic protection, applied to a flat, vertical, outdoor surface under Northern European climate conditions):

White and clear: 10 years

Recommended types of graphic and use

- Indoor and outdoor graphics and signs, emblems or striping
- Wraps for vehicles, straight trucks, semi-trucks and semi-trailers
- Bus graphics
- Small format original equipment manufacturer’s (OEM) decorative and identification graphics, cautionary and safety labeling

Surface types

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

Product line

Product name	Description	Features
3M™ Print Wrap Film IJ180mC-10 LSE	white, opaque film with a glossy finish	low surface energy permanent adhesive (grey) with micro Comply™ and Controltac™
3M™ Print Wrap Film IJ180mC-114 LSE	clear film with a glossy finish	low surface energy permanent adhesive (clear) with micro Comply™ and Controltac™

[Follow the link for more 3M™ 180 Films](#)

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 the selection and use of suitable application tapes for this product, please.](#)

Physical Properties

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

Characteristic	Value
Material	Cast vinyl
Thickness	Film without adhesive: 0.05 mm
ISO 534	Film with adhesive: 0.08 – 0.10 mm
Adhesive	Acrylic pressure-activated, repositionable
Adhesive appearance	-10: Grey -114: Clear
Adhesion	ABS 7 – 10.5 N/cm
Indicative values	Aluminum, anodized 8.8 – 12.3 N/cm
FTM 1, 24 h 23°C/50%RH	Fiberglass 7 – 10.5 N/cm
	Powder-coated paint 5.3 – 10.5 N/cm
Applied shrinkage FTM 14	0.1 mm
Liner	-10: White polyethylene-coated paper -114: Brown polyethylene-coated paper
Application method	Dry only
Substrate types	Aluminum, ABS, PE, PP, powder-coated paint Some composites and plastics tend to outgas. Test composites and plastics prior to application.
Application temperature	16 – 32°C Flat, simple curves, corrugations, rivets, compound curves
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.

Adhesive Characteristics

All versions		1	2	3	4	5	
Installation Characteristics	Challenging/High Skill						Easy/Low Skill
24-hour adhesion	Low						High
Long term adhesion	Low						High
Removability	Not Designed for Easy Removal						Designed for Easy Removal

[Follow the link for complete details about the criteria above and a comparison of all 3M films.](#)

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: [3M Graphics Warranties](#)



Graphic Manufacturing

Ink jet printing

A too high total physical ink amount on the film results in media characteristic changes, inadequate drying, overlamine lifting, and/or poor graphic performance. The maximum recommended total ink coverage for this film is 270%.

See the individual ink bulletins for details, please.

IMPORTANT NOTE: Incomplete drying or curing can result in graphic failure, including curling, increased shrinkage, and adhesion failure, which are not covered under any 3M Graphic Warranty.

[Special Instructions for HP Latex 831/871 and 881/891](#)

Sheeting, Scoring and Film Cutting

[See 3M Instruction Bulletin Production, Cutting](#)

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 Production, Lamination Basics](#)

[See 3M Instruction Bulletin Application, Trailers](#)

[See 3M Instruction Bulletin Application, General Installation Techniques](#)

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.

[See 3M Instruction Bulletin Removal for more information about the removal of films and sheetings.](#)

[See 3M Instruction Bulletin Maintenance for more maintenance information.](#)

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 2 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 2-year maximum from the manufacturing date.

Storage conditions: +4°C to +40°C, out of sunlight, original container in a clean and dry area.

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

Health and Safety

Chemicals

When handling any chemical products, read the manufacturers' container labels and the safety data sheets (SDS) for important health, safety, and environmental information.

[Follow this link to obtain SDS sheets for 3M products.](#)

[Follow this link to obtain information about substances of very high concern \(SVHC\) for EU products.](#)

Tools and Equipment Usage

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

Warranty Information

Technical Information

Technical information, guidance, and other statements provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license to any intellectual property rights is granted or implied with respect to this technical information.

Product Selection and Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment, reviewing all applicable regulations and standards, and reviewing the product label and use instructions. Failure to properly evaluate, select, and use a 3M product in accordance with instructions or to meet all applicable safety regulations may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

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