



Scotchprint® Wrap Film

Series 1080

Product Bulletin

Product Description

Scotchprint® Wrap Film Series 1080 are long-term, dual cast films designed for solid color vehicle detailing, decoration and full wraps without the need of additional graphic protection.

These vinyl films are sold in 1.52 m wide rolls, allowing almost any section of a vehicle to be wrapped without seams.

The films provide excellent opacity to hide high contrast surfaces and are shortly resistant against petrol spillage and extremely resistant to all atmospheric influence.

Controllac™ technology is a mechanical feature out of millions of glass spheres on top of the adhesive surface. This minimizes the initial contact area of the adhesive and allows the applicator to reposition the graphic during application.

This effects easier installation of large formats in a wide temperature range.

Comply™ are air release channels in the adhesive for fast and easy, bubble-free graphic installations.

Product Line	Car wrapping	1080G-X	X = color code, opaque, glossy, permanent adhesive (grey) with Comply™v3. Wide selection out of large color range.
		1080M-X	X = color code, opaque, matte, permanent adhesive (grey) with Comply™v3. Wide selection out of large color range.
		1080BR-X	X = color code, opaque, brushed, permanent adhesive (grey) with Comply™v3. Wide selection out of large color range.
		1080CF-X	X = color code, opaque, carbon fiber, permanent adhesive (grey) with Comply™v3. Wide selection out of large color range.

Product Characteristics

Physical & Application

These are typical values for unprocessed products.

Contact your 3M representative for a custom specification.

Material	cast vinyl
Surface finish	glossy and matte, textured surface (see product line)
Thickness (film)	90 µm (0.09 mm)
Adhesive type	solvent acrylic, pressure-sensitive, repositionable
Adhesive appearance	grey
Liner	double-sided Polyethylene coated paper
Adhesion	20 N/25 mm FTM 1: 180° peel, substrate: glass; cond: 24 h 23°C/50%RH
Additional reference	Automotive paint: 11 N/25 mm - 22 N/25 mm
Application method	dry only!
Applied shrinkage	< 0.4 mm FTM 14
Application temperature	+16°C minimum (air and substrate)

Service temperature	-60°C to +107°C
Surface type	flat to simple curved and moderate compound curves typical to personal vehicles
Substrate type	aluminum, glass, PMMA, PC*, ABS, paint PC*, PETG*: Might require drying with heat before use
Graphic removal	Removable with heat and/or chemicals from supported substrates. No liability is given for ease or speed of removal of any graphic. Pay attention to adequate air and substrate temperature.
Storage Shelf life	2 years from the date on the original box Up to 2 years unprocessed, or processed within 1 year and apply within 1 year of processing
Storage conditions!	+4°C to +40°C, out of sunlight, original container in clean and dry area.

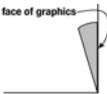
Flammability Flammability standards are different from country to country. Ask your local 3M contact for details, please.

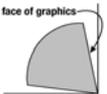
Durability

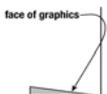
Unprocessed film The following durability data are given for unprocessed film only!
3M Performance Guarantee and MCS™ In addition, 3M provides a guarantee/warranty on a finished applied graphic within the framework of 3M Performance Guarantee and/or 3M MCS™ warranty programs.
Visit www.3mgraphics.com for getting more details about 3M's comprehensive graphic solutions.

Climatic zones 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

Exposure types

Vertical:  The face of the graphic is ±10° from vertical.

Non - vertical:  The face of the graphic is greater than 10° from vertical and greater than 5° from horizontal. This includes non-vertical surfaces of vehicle wraps or fleet truck and trailer graphics.

Horizontal:  The face of the graphic is ±5° from horizontal.

Interior: Interior means an application inside a building without direct exposure to elements.

Vertical outdoor exposure	Zone 1	Zone 2	Zone 3
white/black colors	6 years	4 years	3 years
metallics	5 years	3 years	2.5 years
Non-vertical outdoor exposure	Zone 1	Zone 2	Zone 3
white/black colors	4 years	2.5 years	2 years
metallics	3 years	1.5 years	12 months

Horizontal outdoor exposure	Zone 1	Zone 2	Zone 3
white/black	3 years	2 years	12 months
colors	2 years	12 months	6 months
metallics	2 years	12 months	6 months
Interior application	Zone 1	Zone 2	Zone 3
interior	10 years	10 years	10 years

Important notice! Durability statements for colors and metallics include brushed metal and carbon fibre finishes.

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
- low surface energy substrates or substrates with low surface energy coating.
 - stainless steel.
 - surfaces not clean and more than moderate textured.
 - surfaces with poor paint to substrate adhesion.
 - other than flat or simply curved surfaces.
- Note: When used on more difficult surfaces stress relief cuts are recommended.
- watercraft when the graphic is applied below the static water line.
 - watercraft graphics that are not edge sealed.
 - non-OEM painted substrates on most vehicles.

- Graphic removal from
- signs or existing graphics that must remain intact.
 - vehicles do not have the original OEM paint applied.

- Graphics subjected to
- regular exposure to gasoline vapors or spills at gas pumps, automobile fuel-tank ports.
 - cut and weed applications where the application tape must adhere to the exposed liner.

- Important Notice
- 3M Commercial Graphics Division products are not tested against automotive manufacturer specifications!

Graphics Manufacturing

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.

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' <](#)

- Notice! Post-heating of edges is required at a minimum temperature of 85°C. Tempering of stretched areas at a temperature of 40°C - 50°C will avoid blow through of film.

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'<](#)

Do not apply waxes or polishes to this film. If there is wax on the surface, remove with an all-purpose cleaner. To help restore the film's finish clean the film with isopropyl alcohol and water (2:1).

Notice! The brushes and the wax used at automated car wash will cause that matte colors appear more and more glossy.

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 www.3mgraphics.com for getting more:

- details about 3M™ MCS™ Warranty and 3M™ Performance Guarantee
- additional instruction bulletins
- a complete product overview about materials 3M is offering

3M Europe S.A./N.V.

Hermeslaan 7

1831 Diegem, Belgium

Responsible for this technical bulletin

3M Deutschland GmbH | Display & Graphics Laboratory

Carl-Schurz-Str. 1 | 41453 Neuss, Germany

3M, Controllac, Scotchcal, Comply and MCS are trademarks of 3M Company. All other trademarks are the property of their respective owners.

The use of trademark signs and brand names in this bulletin is based upon US standards. These standards may vary from country to country outside the USA.