Product Description

Product Features

- 3M™ Wrap Film Series 2080 (“2080”) is a multi-layer cast adhesive backed film for full color vehicle wraps, accents, or partial decoration wraps
- 2080 is a more conformable, easier to install film compared to older versions of 3M™ Wrap Film, requiring less heat during installation
- 2080 High Gloss colors offer a 250% better reflected image quality over a typical premium cast vinyl wrap film, providing a mirror-like appearance
- 3M™ Controltac™ and 3M™ Comply™ technology
  - Controltac™ minimizes the adhesive’s initial contact area for easy sliding, tacking, snap-up, and repositioning
  - Comply™ allows air to exit through air release channels to the edge of the film for fast, easy, bubble-free installations
- High gloss color films have a clear protective film layer:
  - Reducing surface impressions and increasing scratch resistance during installation
  - Enabling installers to wrap complex, curved surfaces while leaving the clear protective film layer on
- 2080 has directional arrows on the liner of each roll to help install the textured, metallic, pearl, and color flip films (see FAQ 2080 Installation)
  - High gloss 2080 colors currently do NOT have directional arrows on the liner. Some high gloss colors do exhibit directionality characteristics, making it important to install high gloss films in a consistent orientation across the entire installation. 3M recommends checking the film’s orientation prior to installation to ensure its color and directionality will match across the entire installation.
- Available in 60 in. (1.52 m) rolls to allow for almost any section of the vehicle to be wrapped without seams
- Removable with heat and/or chemicals from most surfaces within the warranty period
- Comprehensive 3M™ MCS™ Warranty - up to eight years of protection on vertical applications* (See Warranty Information.)
- Approved for use with 3M™ Knifeless™ Tapes

* Warranty varies by zone

WARNING

A static electricity discharge can occur when removing the liner, creating sparks and igniting flammable vapors. Only use 3M™ Wrap Film Series 2080 in safe environments.

NOTE

These products are intended for resale for professional use only. All installations should be conducted by a professional installer.

NOTE

The protective film layer on the high gloss color films can be left on for the entire installation, but it must be removed before post-heating.

NOTE

High gloss color films require additional considerations prior to installation. See FAQ 2080 Installation for more details.

Recommended Types of Graphics and End Uses

- 2080 was specifically designed for use on:
  - Standard vehicle graphics, including solid color, detailing, and decoration

NOTE

The intended vehicle substrate is standard OEM vehicle paint. 2080 is NOT intended for stainless steel or powder coated metals.

- 2080 can also be used on:
  - Commercial vehicle and fleet graphics, emblems, or striping
  - Personal watercraft graphics as defined in 3M Instruction Bulletin Application: Watercraft (above the static water line only)

Coverage Options

Packages	Accents	Partial Coverage	Full Vehicle Coverage
Coverage	Gas cap, rocker panels, racing stripes, chrome delete, etc.	Hood or roof examples	Complete color change
Coverage Illustration			

Product Line

Product Name	Description	Features
3M™ Wrap Film Series 2080-X	X = Color code, opaque. Various colors and surfaces.	Controltac™ and Comply™

Recommended Compatible Products

Visit 3Mgraphics.com/warranties for a complete list of compatible products approved by 3M for use with the base film covered in this bulletin and used for the creation of graphics that may be eligible for the 3M™ MCS™ Warranty or 3M™ Performance Warranty.

Coatings or other aftermarket additions (such as, but not limited, to ceramic coatings) are excluded from the 3M™ MCS™ Warranty and should only be applied and/or used on a user test-and-approve basis. The end user assumes complete responsibility if using a coating or unsubstantiated cleaning product on their 2080 car wrap. 3M does NOT warrant 2080 films with coatings or other aftermarket additions.

Graphic Protection

Adding an overlaminate will make 2080 stiffer and more difficult to install.

NOTE

Printing on 2080 films is to be done strictly on a user test-and-approve basis. 3M does NOT warranty any printed application for 2080 film.

- 3M™ Wrap Overlaminate Series 8900

Characteristics

These are the typical values for unprocessed product. Processing may change the values.

Physical Characteristics

Characteristic	Value
Material	Cast vinyl
Color	See the 3M™ Wrap Film Series 2080 Brochure for a full list of colors.
Thickness	These values apply to 2080-M12. Designs vary slightly in thickness. **Without adhesive:** 3.5 mil (0.09 mm) **With adhesive:** 4.5 mil (0.11 mm)
Adhesive	Pressure-activated (slide, tack, snap-up, reposition) with air release channels
Adhesive Color	Gray* or clear, depending on film color
Typical Adhesion 24 Hours After Application	Connect with local sales representative for more detail.
Liner	**Satin, Matte, and Textured color films:** Polyethylene-coated paper **High Gloss color films:** Polyethylene-coated PET
Flammability	Click to view the ASTM E84 report for 2080, or go to the online product catalog at 3Mgraphics.com or call 1-800-328-3908.

* **NOTE:** Gray adhesive color may be darker or lighter depending on the film color.

Application Characteristics

Characteristic	Value
Substrate Type	OEM vehicle paint*
Application Temperature	65°F to 75°F (18°C to 24°C)
Application Method	Dry only

* Check adhesion to powder-coated or water-based paints.

Factors Affecting Film Performance Life

The actual performance of the film is affected by:

- The combination of graphic materials used
- Selection, condition, and preparation of the substrate
- Surface texture
- Application methods
- Environmental conditions
- Angle and direction of sun exposure
- Cleaning and maintenance methods
- Removal methods and conditions

2080 Installation Over Vehicle Sensors, Radar, and Autonomous Equipment

The 3M™ MCS™ Warranty is for aesthetics and film integrity when installed and stored appropriately per 3M's guidance. It is the vehicle owner's and/or vehicle manufacturer's responsibility to validate the compatibility of 2080 with any and all sensors or like equipment prior to installation. In order to ensure such equipment functions properly, 3M recommends users NEVER apply film over such equipment. Always test and confirm an installation does NOT create signal disruptions or loss of functionality prior to full adoption.

Installation

NOTE

Never use a wet application method to apply this film.

Layout Considerations for Graphic Panels

Take into account these considerations when planning a graphic layout:

- Textured, metallic, pearl, and color flip films may have a directional characteristic to their appearance. For the best overall appearance, install the film in a consistent orientation through the entire installation. 3M recommends checking the film's orientation and color prior to installation. Do NOT alternate the film's orientation from panel to panel.
- Film colors can vary from lot-to-lot. Use the same lot number of film for an entire vehicle to achieve a consistent appearance.

See FAQ 2080 Installation for more installation details.

Handling Films

- Use a felt-wrapped squeegee to install the film to minimize scratching.
- Use a heat gun instead of a torch when heat is needed. A torch may alter the appearance of the finish.

3M™ Primer 94

3M recommends using 3M™ Primer 94 to maximize the film's bond to the substrate in any areas that will be stretched, particularly on the edges of the film.

Consult air quality regulations before using 3M™ Primer 94.

Cutting

3M recommends using 3M™ Knifeless™ Tape to perform all film cutting when installing 2080 on vehicles.

- See 3M Instruction Bulletin Production: Cutting for sheeting, scoring, and film cutting details.
- See 3M Instruction Bulletin Application: 3M™ Knifeless™ Tape for details on using 3M™ Knifeless™ Tape to cut film on vehicles.

NOTE

The thickness and texture of these films makes them more difficult to cut and weed cleanly. Use clean, sharp, properly aligned blades. The user must assume responsibility for the outcome, so always test and approve before cutting a large job.

Application Tapes

There are two types of application tapes. See 3M Instruction Bulletin Application: 3M™ Application Tapes for Graphic Films to determine what application tape is recommended for your 3M Graphics Products. Finished graphics eligible for any 3M warranty must be constructed using approved 3M Graphics Products. See the 3M Graphics Warranty Bulletin for more details.

Premasking Tape

Premasking tape increases stiffness during application while preventing stretching and damage. Use when little or no liner is exposed. See 3M Instruction Bulletin Application: 3M™ Application Tapes for Graphic Films for complete details.

Prespacing Tape

Prespacing tape holds cut and weeded letters or graphics in place during application and after removal of the film liner, while preventing stretching and damage. Use when large amounts of liner are exposed. See 3M Instruction Bulletin Application: 3M™ Application Tapes for Graphic Films for complete details.

NOTE

The texture on certain films in 3M™ Wrap Film Series 2080 makes it difficult for any application tape to adhere to the film. If used, apply the graphic as soon after cutting and applying an application tape as possible. Alway test and approve before committing to a job. See 3M Instruction Bulletin Application: 3M™ Application Tapes for Graphic Films for complete details.

Pressure-activated Adhesive

The pressure activated adhesive on this film offers:

- smooth sliding into position on a substrate;
- fast finger tacking to check positioning; and
- easy snap-up and repositioning when you need it.

The **snap-up and reposition feature is lost:**

- when firm pressure with a squeegee or other application tool is applied;
- at application temperatures above 100°F (38°C) even if only light finger pressure was used for tacking; or
- if any part of the film is removed from the original liner and reapplied to the same or another liner.

Working with Air Release Channels

Air release channels are a characteristic of films with Comply™ adhesive, allowing trapped air to exit through the edges of the graphic.

- The channels will be damaged if installers remove and attempt to change liners or reapply the same liner.
- For the best results, always work from the center of a graphic out to the edges to allow trapped air to escape. Use an air release tool to help remove any trapped air bubbles. See 3M Instruction Bulletin Application: Trailers for details.

Maintenance and Cleaning

Use care to avoid scratching the film. Never scrub the film. Scratching and abrasion marks may be visible and may not be able to be worked out of the film's unique finish. Avoid using harsh chemicals and brushes when cleaning the vehicle, and avoid parking near shrubs, trees, and any other items that could scratch the vehicle. 3M recommends storing wrapped vehicles in a temperature controlled garage. See 3M FAQ Vehicle Care for details.

Use a cleaner designed for high-quality painted surfaces. 3M recommends users test the cleaner on a small area prior to full adoption. The cleaner must be wet, non-abrasive, without solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline). See 3M Instruction Bulletin Maintenance for details.

NOTE

Refer to the FAQ 2080 Maintenance for a list of approved waxes and polishes to use with 2080 films.

Removal

Removal requires heat and/or chemicals. 3M makes no claims as to the speed of removal. This product may not remove similarly to other products in the same category. See 3M Instruction Bulletin Removal for details.

Shelf Life, Storage, and Shipping

Shelf Life

The shelf life is **never more than three years** from the date of manufacture on the original box.

Processing the film changes its shelf life to **one year** from the processing date, but no more than three years from the manufacturing date.

Storage Conditions

- 40°F to 100°F (4°C to 38°C)
- Out of sunlight
- Clean, dry area
- Original container
- Bring the film to room temperature before use

Shipping Finished Graphics

Flat, or rolled printed side out on a 6 in. (15 cm) or larger core. This helps prevent the application tape, if used, from popping off.

3M Related Literature

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

- 3M Instruction Bulletin Application: 3M™ Application Tapes for Graphic Films
- 3M Instruction Bulletin Application: Rail
- 3M Instruction Bulletin Application: Signage
- 3M Instruction Bulletin Application: Trailers
- 3M Instruction Bulletin Application: Vehicles
  - Complete the 3M Pre-Installation Inspection Record found in this instruction bulletin prior to manufacturing or applying a graphic to an automobile, van, or bus.
- 3M Instruction Bulletin Application: Vehicle Color Change
  - Complete the 3M Vehicle Color Change Pre-Installation Inspection Record found in this instruction bulletin prior to manufacturing or applying a graphic to an automobile, van, or bus.
- 3M Instruction Bulletin Application: Watercraft
  - Complete the 3M Pre-Installation Inspection Record found in this instruction bulletin prior to manufacturing or applying a graphic to a watercraft.
- 3M Wrap Film Product Care Guide
- 3M Vehicle Cleaning SOP

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

Warranty Coverage Overview

The warranty coverage for eligible graphics is based on the user both reading and following all applicable and current 3M Graphics product and instruction bulletins. The warranty period for eligible graphics is as stated in the 3M Graphics Warranties Matrices at the time the film was purchased. Information found at 3M.com/graphicswarranties includes:

- 3M Graphics Warranties Bulletin
  - This bulletin contains information on limitations, exceptions, and warranty period reductions for 3M Graphics warranties. The warranty period may be reduced and stipulations may apply for certain constructions, applications, and graphic exposures as covered in this bulletin.
- 3M Graphics Warranties Selector
  - Use this selector to search for your warranty coverage by 3M Graphics Product(s), Inks, Printer, Application(s), and Exposure.
- 3M™ MCS™ Global Geographical Zones
  - Use this map to identify your warranty zone and determine if you are subject to reduced warranted durabilities.

Technical Information

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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.

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