

Using 3M™ Wrap Film Series 2080

About the Films

What's new?

- 3M™ Wrap Film Series 2080 is more conformable than the previous 3M™ Wrap Film Series 1080, enabling easier installation with less heat.
- All 3M™ Wrap Film Series 2080 gloss films have a conformable protective film layer on the surface.
 - The protective film layer reduces surface impressions in a finished goods roll. It is removed easily and cleanly after installation.
 - Scratches impressed into the protective film layer will not transfer to the film itself.
 - Leave on the protective film layer for the entire installation, and remove before postheating.
 - If hazing occurs, the aid of a heat gun will bring the film back to its original gloss level.
- 3M™ Wrap Film Series 2080 offers an improved warranty versus 3M™ Wrap Film Series 1080 with up to 8 years on vertical applications and up to 3 years on horizontal applications.

Quick Links

- [3M Graphics Warranties](#)
- [Technical Information Selector](#)
- [Safety Data Sheets \(SDS\)](#)
- [Flammability \(ASTM E84 Reports\)](#)
- [Videos](#)

Some of these links lead to web-based resources that are not product-specific.

Can I use an overlaminates?

Applying 3M™ Wrap Overlaminates Series 8900 can alter the appearance of Film Series 2080's inherent texture. If a different graphic protection other than 3M™ Wrap Overlaminates Series 8900 is used, then the wrap shop assumes all risk for testing, approving, suitability, and warranty.

i IMPORTANT NOTE

All 2080 Gloss Films have a protective film layer on the surface. This protective film layer will need to be removed before applying an overlaminate.

Can I print on Film Series 2080?

Film series 2080 is available in many colors, textures, and finishes and is intended to be used without further processing. If the film is printed, with or without graphic protection, the wrap shop assumes all risk for testing, approving, suitability, and warranty.

i IMPORTANT NOTE

All 2080 Gloss Films have a protective film layer on the surface. This protective film layer will need to be removed before printing.

Is the "striped" appearance on carbon fiber films normal?

Yes. All film in series 2080 have some texture that is integral in creating these unique looks. The carbon fiber films have the most texture, which appears to have more depth or texture in certain lighting conditions, giving a somewhat striped look.

Do certain colors, such as Satin Pearl White, appear to change color if applied in different directions?

Yes. Certain film colors, such as Satin Pearl White and the Brushed Metal colors, have a directional characteristic in their appearance. Also, film colors can vary slightly from lot-to-lot. For the most consistent looking color, use the same lot number of film for an entire vehicle. 3M now offers Color Flip options that change color when looking at them from different viewing angles. See 3M.com/2080 and 3M Product Bulletin 2080 for details.

i IMPORTANT NOTE

Textured, metallic, pearl, and color flip films may have a directional characteristic in their appearance. For the best overall appearance, do not alternate between lengthwise and widthwise graphic panels. Following the directional arrows when installing will give you consistency and will help prevent a color shift from panel to panel.

How can I ship and store 2080 Gloss Films?

All 2080 Gloss Films have a protective film layer on the surface. Do not use masking tape on the protective film layer. Please wrap the outer layer of 2080 Gloss Film with paper and fix the paper with tape to prevent the film layer from damaging. Clips can be used for the storage of 2080 Gloss Films. See 3M Product Bulletin 2080 for further information.

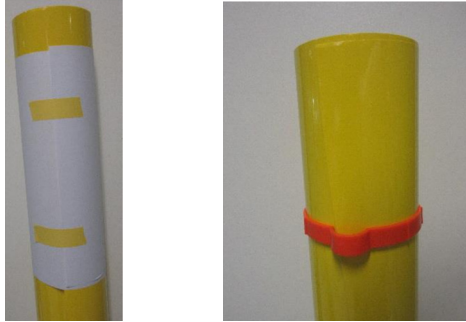


Figure 1. Film Storage Options

Installation Tips

Cleaning the Vehicle Properly Before Applying Film.

Cleaning the application surface properly is one of the most important steps to a good application. Wash and dry the vehicle thoroughly. Wipe the application area and a large area around it with a solvent-based cleaner, wiping dry as you work. Wipe again with a 2:1 mixture of Isopropyl Alcohol (IPA) and water, wiping dry as you work. For complete details, please read 3M Instruction Bulletin 5.36. Alternatively, use 3M™ Surface Preparation System and lint-free paper towels for cleaning the application surface. After cleaning make sure that the application surface is completely dry.

Using Masking Tape for Alignment.

Always use masking tape to mark alignment. Do not use a grease pencil. Its waxy core can become embedded in the film's texture, and attempting to remove it may damage the texture.

Covering the Edge of the Squeegee to Reduce Scratches.

The unique finishes on film series 2080 are sensitive to installation scratches and require careful handling during installation. 3M recommends using a high-density felt squeegee, or covering the edge of a 3M™ Applicator PA1-G (gold) with the "loop" side of 3M™ Scotchmate™ Reclosable Hook and Loop Fastener - Loop portion SJ-35231 or PTFE tape. Another option is to use a squeegee with a suede or nylon wrapped edge. Alternatively, use 3M™ Application PA1-G (gold) squeegee with thin, soft micro fiber sleeves.

Using a Heat Gun, Not a Torch, for Heating the Film.

Heat the film only with a heat gun - never a torch. A torch is likely to alter the appearance of the finish permanently, which cannot be repaired.

Using 3M Roller Tools

3M offers several roller based tools to help get the job done. 3M™ Rapid Roller Applicator CPA-2 is for flat areas, such as the hood or roof. 3M™ Roller L, 3M™ Roller S and 3M™ Vehicle Channel Applicator Tool VCAT-2 have specially shaped rollers to help conform heated film into channels and recesses. Read more about these tools in 3M Instruction Bulletin 5.36.

Using Application Tape

Film series 2080 features a dual cast construction that is 3.5 mil thick. It has just enough rigidity to allow easy installation without an overlaminates or application tape. Due to the film's texture, application tape may not work well with cut and prespaced graphics. Wrap shops may choose to test and approve an application tape. 3M™ Prespacing Tape SCPS-55 is a good one to try.

i IMPORTANT NOTE

All 2080 Gloss Films have a protective film layer on the surface. This protective film layer will need to be removed before applying application tape.

Installation Overview

Where can I get complete installation details?

3M Instruction Bulletin 5.36 is specifically for installing vehicle wraps. 3M also offers world-class training for professional growth as well as opportunities for earning an installer endorsement from 3M and being listed on the 3M website.

Does Film Series 2080 install the same way as Print Wrap Film IJ180mC?

Installation is very similar to 3M™ Print Wrap Film IJ180mC. Film series 2080 has the same features as Print Wrap Film IJ180mC, that is, slideable and repositionable adhesive with virtually invisible air release channels. But be aware of these important details:

- Align the graphic using masking tape.
- Apply edge protection to the squeegee, such as PTFE tape or loop tape.
- Use a heat gun, never a torch.

Is a film primer required on complex curves?

3M™ Primer 94 can help any film adhere to deep channels and complex contours. Please refer to 3M Instruction Bulletin 5.36 and 3M Instruction Bulletin 5.46 for recommendations.

Can I wet apply film series 2080?

No. 3M does not recommend or warrant using a wetting solution on the vehicle surface when applying any film with air release channels. However, the installer may use a wetting solution on top of the film layer to provide some slip resistance for the squeegee.

Can I apply film series 2080 to an older, rusted or repaired vehicle?

All wrap films, including film series 2080, should be applied to a “like new” vehicle finish for the best results. 3M’s warranty only applies to vehicles that have an excellent bond of the paint and its finish to the vehicle substrate. Any rust, bubbling, scratches, dents or other damage will be visible through the film, and such surface imperfections may damage the film or cause the film to fail prematurely. Areas repaired with body filler must be sanded, epoxy primed and for best results, finished with OEM (Original Equipment Manufacturer) paint or clear coat. Any recently applied finish must be cured for the full amount of time recommended by the paint manufacturer before applying film.

Are there any special application considerations?

Yes, particularly for Carbon Fiber and Metal finishes and 3M™ Wrap Overlaminate Series 8900. Because of the unique patterns designed into these films for their realistic looking finish, improper application techniques show more readily on these finishes. Proper stretching and heating of the film is essential to avoid creating visual imperfections, which can appear as dents, bends, stretch marks or kinks in the finish. See Figure 2.

To ensure a successful application:

- If needed, stretch large sections of the film. Stretching the film in smaller sections may cause a series of stretch marks at every location where stretching occurred.
- Always use even tension when stretching the film. Avoid applying too much force in one particular area, which may distort the film’s finish.
- Apply as little heat—using only a heat gun—as necessary to stretch the film. The temperature at the surface of the film should not exceed 150°F (65°C).
- Avoid applying heat directly at the location where the film attaches to the substrate.

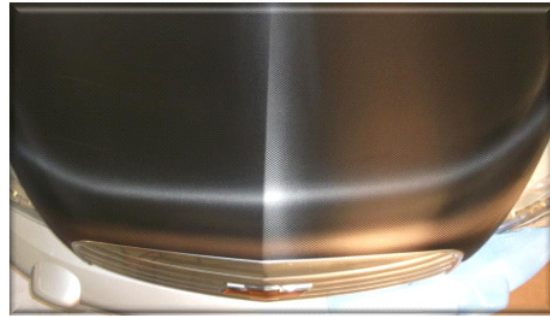


Figure 2. Proper techniques ensure a professional looking wrap

Wrapped Vehicle Maintenance

Removing Fingerprints

The matte finish films may show fingerprints, but they can be cleaned off after the installation is complete by saturating a clean, lint-free towel with a 2:1 mixture of Isopropyl Alcohol (IPA) and water (or 70% IPA), and then wiping and drying the film surface.

Removing Stains

Try a household cleaner, such as SimpleGreen®, and a lint-free cloth, followed by the technique used for "1. Removing fingerprints." Alternatively, for matte, satin and textured films, try 3M™ Cleaner for Matte Wrap Films (available in Europe, Middle East and Africa only), and for glossy films, try 3M™ Finesse-it™.

Removing Scratches

Many surface scratches will disappear when exposed to the sunlight on warm days. Otherwise, surface scratches may be removed by heating the film surface with a heat gun. Do not allow the surface temperature of the film to exceed 225°F (107°C). See Figure 3. Deeper scratches in the film surface will not come out. Always use care to avoid scratches during installation, maintenance, use and storage of the wrapped vehicle.



Figure 3. Circled area shows surfaces scratches removed with a heat gun

Cleaning a Wrap

Please use our Wrap Care web page at www.3Mgraphics.com/CarMaintenance.

Film or Finish Type	Product or Solution
Smooth or Gloss Texture	<ul style="list-style-type: none"> • 3M™ Perfect-It™ Show Car Paste Wax 39526 • Meguiar's® Gold Class™ Carnuaba Plus Premium Liquid Wax • 3M™ Polish Rosa 80345 • 3M™ Synthetic Wax Protectant
Matte or Satin Texture	<ul style="list-style-type: none"> • 2:1 mixture Isopropyl Alcohol (IPA) and water • 3M™ Cleaner for Matte Wrap Films <p>Based on type/degree of contamination, use one or more of these solutions, in the order shown, to remove any build-up.</p>
Matte White (2080-M10) Carbon Fiber White (2080-CF100, 8900-BR100)	<ul style="list-style-type: none"> • Hot, soapy water solution • 2:1 mixture IPA and water • Simple Green® All-Purpose Cleaner • Household chlorine bleach followed by the 2:1 mixture IPA and water • Mineral spirits followed by the 2:1 mixture IPA and water <p>Alternatively, use 3M™ Cleaner for Matte Wrap Films</p>
Carbon Fiber Black (2080-CF12, 8900-CF100, 8900-BR100)	<ul style="list-style-type: none"> • Meguiar's Ultimate Black Plastic Restorer • 3M™ Cleaner for Matte Wrap Films

Refreshing the Appearance of a Vehicle Wrap

Before using any of these procedures, test and approve in an inconspicuous area before using on the entire wrap.



Figure 4: Recommended Meguiar's Finishing Products

Replacing Damaged Wraps

If your customer requests replacing only a damaged side of a wrap, you may want to recommend replacing the entire graphic. Many factors will contribute to the replaced section appearing different, which may not be satisfactory for the customer. Those factors include color shifts due to using film from a different lot of printing done at a later date, and the slight fading or change in gloss that may have occurred on the installed film.

i IMPORTANT NOTE

Ceramic coatings or any 9H coatings used on 3M Wraps are the responsibilities of the wrap shop for testing, approving, suitability, and warranty. 3M is not responsible for damage, discoloration of the films when coated with these products.

Removing a Wrap

Removing Film Series 2080

3M recommends that film be removed by a wrap professional. Film series 2080 is removable throughout the time period covered under warranty, providing the film has not been printed and no overlaminates have been applied. Heat and/or chemicals may be required. Some adhesive residue may be left on the vehicle, which can be easily cleaned off with a product such as 3M™ Citrus Base Cleaner. Refer to 3M Product Bulletin 2080 and 3M Instruction Bulletin 6.5 for more details.

Removal Causing Damage

When used, applied, maintained, and removed according to 3M's instructions and within the product's 3M warranty period, Film Series 2080 should not damage an OEM paint finish upon removal.

Questions and Answers for Wrap Shops

Other Resources & Information

Information Available at 3Mgraphics.com

More information on the web! To see the newest additions to this exciting product offering and to learn more product details, go to: 3Mgraphics.com

Warranty Information

For 3M warranty information, go to www.3Mgraphics.com/warranties.

Protective Film Layer on All 2080 Gloss Films

This protective film layer is classified as recyclable plastic Number 4. Recycling programs vary from country to country. Ask your local solid waste authority for the recycling program of plastic Number 4.

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.

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3M Center, Building 220-12E-04
St. Paul, MN 55144

1-800-328-3908
3M.com/Graphics

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