

8588G 8590M

Product Description

- Anti-graffiti wrap overlaminates
- Resistant to graffiti, dirt buildup, and other contaminants
- Good scratch resistance
- Excellent UV protection
- Long-term vertical durability
- Excellent cleanability
- Higher conformability than 8991, 8993, or 8995, for use on complex-curved surfaces
- Expected performance life of nine years (unwarranted period applied to a flat, vertical, outdoor surface)

Recommended Types of Graphics and End Uses

- For inkjet-printed films
 - [3M™ ControTAC™ Graphic Film with Comply™ v3 Adhesive IJ180Cv3](#)
 - [3M™ ControTAC™ Graphic Film with Comply™ Adhesive IJ180C](#)
 - [3M™ ControTAC™ Graphic Film IJ180-10](#)
 - [3M™ Print Wrap Film IJ180mC-10/IJ180mC-114/IJ180mC-120](#)
 - [3M™ Envision™ Print Wrap Film LX480mC](#)
 - [3M™ Envision™ Print Wrap Film SV480mC](#)
 - [3M™ ControTAC™ Wrap Film with Comply™ v3 Adhesive IJ380Cv3](#)
 - [3M™ Scotchcal™ Graphic Film with Comply™ v3 Adhesive IJ170Cv3](#)
 - [3M™ Print Wrap Film IJ175Cv3](#)
 - [3M™ Scotchlite™ Print Wrap Film 780mC-10R](#)
- Fleet and vehicle wraps
- Watercraft
- Transit and rail
- Labels, signage, and awning
- Smooth walls
- Dry erase surfaces
- Utility and postal boxes
- Windows and glass

WARNING

This product is NOT suitable for use on textured walls. The high levels of heat required to apply the product to a textured surface may generate trace amounts of hydrogen fluoride, a highly-corrosive substance which can cause serious injury to lungs and skin.

Certificate of 3M™ MCS™ Warranty

Graphic manufacturers who produce digitally printed graphics made with all branded 3M Graphics products, including 3M ink purchased through a qualified 3M distributor or 3M printing partner, may register to be recognized with a Certificate of 3M™ MCS™ Warranty. Only graphic manufacturers having a current Certificate of 3M™ MCS™ Warranty are eligible to extend this warranty to their customers.

NOTE: For non-digitally printed finished graphics, check your eligibility for the 3M™ MCS™ Warranty by viewing the warranty period found within this product bulletin or by using the warranty selector at www.3mgraphics.com/warranties.

Quick Links

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

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

Characteristics

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

Performance Characteristics

Characteristic	Value
Material	PVDF blended polymer film
Thickness	8588G: 1.1 mil (0.03 mm) 8590M: 1.6 mil (0.04 mm)
Gloss	8588G: Gloss 8590M: Matte
Liner	8588G: Polyester 8590M: Kraft paper
Lamination Temperature	60°F to 100°F (15°C to 38°C)
In Use Temperature Range	-65°F to +200°F (-54°C to +93°C)
Chemical Resistance	<ul style="list-style-type: none">Resists mild alkalis, mild acids, and saltExcellent resistance to water (<i>does not include immersion</i>)Resists occasional fuel spills
Flammability	To view the ASTM E84 report visit the online product catalog at 3m.com/graphics . For all other test reports call 1-800-328-2908.

Factors Affecting Graphic Performance Life

The actual performance life of a graphic is affected by:

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

Graphics Manufacturing

CAUTION

Before using any equipment, always read the manufacturer's instructions for safe operation.

Completely Dry Graphics

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 Graphics warranty.

See the ink's 3M product and instruction bulletins for more details.

Application Tapes

There are two types of application tapes. See [3M Instruction Bulletin AT-1](#) to determine what application tape is recommended for your film or finished graphic.

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 4.3](#) 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 4.3](#) for complete details.

Application and Installation

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 4.22](#) Lamination Basics for Inkjet Printed Graphics

Maintenance and Cleaning

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). See [3M Instruction Bulletin 6.5](#) 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 later 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.

Health and Safety

CAUTION

When handling any chemical products, read the manufacturers' container labels and the safety data sheets (SDS) for important health, safety, and environmental information. To obtain SDS for 3M products go to [3M.com/SDS](https://www.3m.com/SDS). To request SDS by mail, or in case of an urgent situation, call 1-800-364-3577 or 1-651-737-6501.

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](https://www.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 vertical warranty period by product type, ink type, film name, and/or ink/printer platform.
- [U.S. Desert Southwest Region Map](#)
 - Use this map of hot, arid desert areas to determine if you are subject to reduced warranted durabilities.

Technical Information

The technical information, guidance, and other statements contained in this document or otherwise 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 under any 3M or third party intellectual property rights is granted or implied with this 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

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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.

Commercial Solutions

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1-800-328-3908
[3M.com/Graphics](https://www.3m.com/Graphics)

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