8518 Gloss Overlaminate
8519 Luster Overlaminate
8520 Matte Overlaminate
8914 Optically Clear Overlaminate
8915 Ultra-Matte Overlaminate
8528 Gloss Overlaminate

Product Description
- 8518, 8519, 8520: resists fuel vapors, highly conformable
- 8518: provides wet paint look
- 8914: optically clear, primarily for perforated window graphic film, to protect and prevent moisture and contaminant collecting in film perforations, conformable
- 8915: Ultra-matte reduces glare
- 8528: Superior UV protection, longer term vertical durability, horizontal warranty
- 8518, 8519, 8520, 8914, 8915: Expected performance life of 8 years (unwarranted period applied to a flat, vertical, outdoor surface)
- 8528: Expected performance life of 9 years (unwarranted period applied to a flat, vertical, outdoor surface)

Recommended Types of Graphics and End Uses
- 8518, 8519, 8520: Fleet/vehicle, vehicle wraps, watercraft, transit, labels, thermoformable, smooth walls
- 8518, 8914: Windows and glass
- 8915: Fleet/vehicle, vehicle wraps, watercraft, transit, signage, smooth walls
- 8528: Fleet/vehicle, vehicle wraps, transit, smooth walls, windows and glass
- Floor Graphics (8520 only)

IMPORTANT NOTE
8520 has been tested according to the UL410 specification, and is certified to be slip-resistant for use on floor graphics.
3M™ Scotchcal™ Overlaminate

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

Performance Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Cast vinyl</td>
</tr>
<tr>
<td>Thickness</td>
<td>2 mils</td>
</tr>
<tr>
<td>Gloss</td>
<td>8518, 8914, 8528: Gloss</td>
</tr>
<tr>
<td></td>
<td>8519: Luster</td>
</tr>
<tr>
<td></td>
<td>8520: Matte</td>
</tr>
<tr>
<td></td>
<td>8915: Ultra-matte</td>
</tr>
<tr>
<td>Liner</td>
<td>8518, 8914, 8528: Polyester</td>
</tr>
<tr>
<td></td>
<td>8519, 8520, 8915: Kraft paper</td>
</tr>
<tr>
<td>Lamination Temperature</td>
<td>60 to +100 °F (15 to +38 °C)</td>
</tr>
<tr>
<td>In Use Temperature Range</td>
<td>-65 to +225 °F (-54 to +107 °C)</td>
</tr>
</tbody>
</table>

Chemical Resistance
- Resists mild alkalis, mild acids, and salt
- Excellent resistance to water *(does not include immersion)*
- Resists occasional fuel spills

Flammability
- ASTM E84 reports: 8518, 8519, 8520, and 8528, or go to the On-line Product Catalog at 3Mgraphics.com
- All other test reports: call 1-800-328-3908

Warranty Information
All 3M graphic protection products are covered by the 3M Basic Product Warranty.
A warranty period may be offered based on the graphic construction and application details. Always refer to the 3M Product Bulletin for the 3M base film or flexible substrate you are using to determine if the graphic protection product you want to use is recommended and what, if any warranty period is offered.

**IMPORTANT NOTE**
Warranty information including limitations and exceptions and warranty periods for this product can be found at 3M.com/graphicswarranties.

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 that the film was purchased. Information found at 3M.com/graphicswarranties includes:

- **3M Graphics Warranties Bulletin**
  - This bulletin contains information on limitations and 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.

The warranties set forth in this Bulletin are made in lieu of all other express or implied warranties, including any implied warranty of merchantability, fitness for a particular purpose, or arising out of a course of dealing, custom, or usage of trade.
3M Basic Product Warranty

3M Graphics Products are warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in its applicable 3M Graphics Product Bulletin and as further set forth in the 3M Graphics Warranties Bulletin.

Limited Remedy

The limited remedy applicable to each warranty is addressed in the 3M Graphics Warranties Bulletin found at 3M.com/graphicswarranties.

Limitation of Liability

Except to the extent prohibited by law, 3M SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO PURCHASER OR USER FOR ANY DIRECT (EXCEPT FOR THE LIMITED REMEDY PROVIDED HEREIN), INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LABOR, NON-3M MATERIAL CHARGES, LOSS OF PROFITS, REVENUE, BUSINESS, OPPORTUNITY, OR GOODWILL) RESULTING FROM OR IN ANY WAY RELATED TO 3M'S GRAPHICS PRODUCTS, SERVICES, OR THIS BULLETIN. This limitation of liability applies regardless of the legal or equitable theory under which such losses or damages are sought.

Warranty Period Matrices

See the 3M Graphics Warranties Matrices at 3M.com/graphicswarranties, for vertical and horizontal warranty period information specific to your film.

Additional Limitations

See the 3M Graphics Warranties Bulletin at 3MGraphics.com/warranties, for terms, additional limitations of your warranty, if any, information on reduced warranties for different exposures, and limitations of liability.

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 sheets for 3M products go to 3M.com/SDS, or by mail or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501.

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

Air Quality Regulations

State Volatile Organic Compound (VOC) regulations may prohibit the use of certain chemicals with VOC’s in graphic arts coatings and printing operations. For example, the California South Coast Air Quality Management District prohibits use of certain solvent-based solutions without a permit and other California AQMD’s prohibit use of certain solutions without a permit or regulatory exemption. Check with your State environmental authorities to determine whether use of this solution may be restricted or prohibited.

Factors that Affect Graphic Performance Life

The actual performance life of a graphic is affected by:

- the combinations of graphics 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 or maintenance methods.
Graphics Manufacturing

⚠️ CAUTION
Before using any equipment, always read the manufacturer’s instructions for safe operation.

Completely Dry Graphics

ℹ️ 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.

See the specific ink’s 3M Product and Instruction Bulletin 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 the film or finished graphic.

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
Holds cut and weeded letters or graphics in place during application and after removing 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 that the user may need to properly manufacture a graphic.

- 3M Instruction Bulletin 4.22 Lamination Basics for Inkjet Printed Graphics
- 3M Instruction Bulletin 5.7 Application, Wet Method for Translucent, Inkjet, Screen Printed and Cut 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 3 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 3 year maximum from the manufacturing date.

Storage Conditions

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

Shipping Finished Graphics

Flat, or rolled printed side out on 5 inch (13 cm) or larger core. This helps prevent the liner, and, if used, the application tape from popping off.