

3M**Scotchcal™****Protective Overlamine Film 8947 (ES)****Description****Advantages**

- Transparent overlamine for use ONLY with 3M™ Scotchcal™ Electrostatic Film 8662–10 (ES)
- Scuff-resistant, slip-resistant
- Excellent resistance to wear from high foot traffic
- Exterior, short term durability

Applications and Uses

3M™ Scotchcal™ Protective Overlamine Film 8947(ES) is intended ONLY for use with film 8662–10 (ES) in the making of 3M Scotchprint® Graphics for Sidewalk Signs. This graphic system is warranted by the 3M™ MCS™ Warranty.

See Product Bulletin 8662 for complete applications and uses of sidewalk signs.

Limitations of End Uses

We do not normally warrant other applications, but please contact us to discuss your needs or let us suggest other 3M products.

Specifically, we do not warrant this film or the finished graphic for the following:

- Exposure to vehicle traffic, snowplows, snow shovels, heavy equipment traffic

Film and Overlamine Kit 4632–10

The film and protective overlamine used to make electrostatically imaged, Scotchprint graphics for sidewalk signs are designed to work together.

Order kit no. 4632–10, which includes a 50 yard roll of each of the following:

- Film 8662-10 (ES)
- Protective overlamine film 8947(ES)

Characteristics

| Property | Description |
|--------------------------------|----------------------------------|
| Film | 19 mil, clear |
| Thickness (film plus adhesive) | 23 mil (0.6 mm) |
| Adhesive | Pressure sensitive |
| Liner | 58 pound, polycoated kraft paper |

Note: All Product and Instruction Bulletins mentioned in this bulletin can be ordered through our Fax-on-Demand system. See 3M Related Literature near the end of this bulletin for details.

Effective Performance Life

When protective overlamine film 8947 (ES) is applied to film 8662–10 (ES) in accordance with 3M recommended procedures by a 3M Scotchprint® Graphics Authorized Manufacturer to make a sidewalk sign, the following performance may be expected. The performance is based upon foot traffic experience in the field. Graphics may be damaged by frequent vehicular traffic or heavy equipment such as snowplows and snow shovels; minor edge chipping is unavoidable. These types of damage are not covered by 3M's warranty. Performance depends upon the condition and preparation of *unsealed, exterior, pedestrian traffic surfaces* before application, the exposure conditions, and the maintenance of the graphics.

Warranted Durability: 3 months

Protective Overlamine

To make a warranted sidewalk sign, protective overlamine 8947 (ES) must be applied to film 8662–10 (ES).

Refer to the laminator operator's manual for additional details. Also see Instruction Bulletin 4.22 on Cold Roll Lamination.

Cutting

We recommend cutting radiuses on any sharp corners. This helps prevent premature lifting of the graphic after application.

The following are common cutting methods for this film. See Instruction Bulletin 4.1 for details.

- Hand cut
- Guillotine
- Cold steel-rule die cutting

Premasking and Prespacing

Typically, overlamine film 8947 (ES) does not require a premask or prespace tape for application. However, if you are applying die cut, pre-spaced graphics, we recommend using 3M™ Scotchcal™ Prespace Tape SCPS 53–X.

Application and Removal

See Instruction Bulletin 5.33.

Maintenance and Cleaning

3M Scotchprint® Graphics for Sidewalk Signs should be cleaned regularly for optimum skid resistance and appearance. See Instruction Bulletin 5.33 for detail cleaning and maintenance instructions.

Shelf Life, Shipping, and Storage

- Unprocessed film has a shelf life of 2 years after receipt from 3M. Processed film has a shelf life of 1 year. However, the total shelf life of a graphic before and after processing cannot exceed 2 years.
- Store the film in a clean, dry area, out of direct sunlight, at less than 100°F (38°C) and in the original container.
- We recommend storing and shipping the sidewalk signs lying flat or rolled, graphic side out, on a 6 inch (152 mm) core. This helps prevent the film from wrinkling or popping off the liner.
- See Instruction Bulletin 6.5 for details.

Physical Properties

The values given are typical for 3M™ Scotchcal™ Protective Overlamine Film 8947 (ES) and are not for use in specifications.

Skid Resistance

Overlamine film 8947 (ES) has been tested per ASTM E303, “Standard Test Method for Measuring Frictional Properties Using the British Pendulum Tester”, and meets the requirements of the skid resistance values, or British Pendulum Number (BPN), as set forth in the proposed European norms prEN1341 and prEN1342 for pedestrian surfaces.

| Test Method | Results | |
|-------------|-------------|-------------|
| | Dry Surface | Wet Surface |
| ASTM E303 | BPN = 95 | BPN = 40 |

Physical Properties

| Property | English Units | Metric Units |
|----------------------------|-----------------------|-------------------|
| Tensile strength (minimum) | 11 pound/inch at 73°F | 2.0 kg/cm at 23°C |
| Applied shrinkage | 0.157 inches | 0.4 mm |

Health and Safety

Caution

When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations.
- Electronically, visit us at <http://www.3M.com>, then select MSDS search.
- 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 manufacturers' instructions for safe operation.

Warranty and Limited Remedy

This warranty is made in lieu of any and all other express or implied warranties, including any implied warranty of merchantability: 3M warrants that sidewalk signs, which are constructed using only the recommended 3M image transfer media, toners and overlamine film, and are produced and installed in accordance with 3M's written instructions, will for a period up to 3 months after application have the following expected performance: maintain original brightness, color, and image quality, except for ordinary and expected wear and tear, and adhere to 3M-recommended unsealed exterior surfaces and be removable without damage to the surface. 3M will replace or refund the cost of materials for such quantity of sidewalk signs found not to meet this warranty.

This warranty is exclusive. In no case shall 3M be liable for any other direct or indirect damages or loss, including without limitation any incidental, special, or consequential damages, or any labor charges incident to the removal or replacement of sidewalk signs.

3M Related Literature

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our website at www.3M.com/US/graphicarts, or order them via our Fax-on-Demand (FOD) system. Call one of these phone numbers to order the desired bulletins, and specify the FOD document number provided in the chart.

United States or Canada: 1-800-364-0768
International: 1-650-556-8417

| Subject | Bulletin No. | FOD No. |
|---|--------------|---------|
| Product Bulletins | | |
| 3M™ Scotchcal™ Electrostatic Film 8662-10 (ES) | 8662 | 3556 |
| Instruction Bulletins | | |
| Cold Roll Lamination | 4.22 | 6522 |
| Application and Maintenance for 3M Scotchprint® Graphics for Sidewalk Signs | 5.33 | 7033 |
| Storage, Handling, Maintenance, Removal | 6.5 | 8505 |
| Warranties | | |
| Worldwide 3M™ MCS™ Warranty Packet <i>(includes all Commercial Graphics MCS Warranties)</i> | | 9503 |
| Worldwide 3M™ MCS™ Warranty Overview-Folder | | 9504 |
| 3M Scotchprint® Graphics Warranty <i>(includes overview)</i> | | 9505 |



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