

Product Bulletin

Product Description

This cast, durable, opaque film is designed for making short term graphics that are applied to unsealed,

outdoor, pedestrian traffic surfaces.

Product Line Screen printing

3662-10

white, opaque, glossy, removable adhesive.

Product Characteristics

These are typical values for unprocessed products.

Contact your 3M representative for a custom specification.

Physical & Application

Material cast vinyl Surface finish glossy

Thickness (film) 50 μ m (0.05 mm)

Adhesive type solvent acrylic; pressure-sensitive

Adhesive appearance grey

Liner double-sided Polyethylene coated paper

Adhesion approx. 22 N/25 mm FTM 1: 180° peel, substrate: glass; cond: 24 h 23°C/50%RH

Application method dry only!

Applied shrinkage < 3.0 mm FTM 14

Application temperature +10°C minimum (air and substrate)

Service temperature -10°C to +65°C

Surface type fla

Substrate type asphalt, concrete, pavement bricks

Graphic removal Removable without heat and/or chemicals from supported substrates.

No liability is given for ease or speed of removal of any graphic. Pay attention to

adequate air and substrate temperature.

Storage Shelf life Use within 2 years from the date of manufacture on the sealed original box.

Use within 1 year after opening the box.

Storage conditions $+4^{\circ}\text{C}$ to $+40^{\circ}\text{C}$, out of sunlight, original container in clean and dry area.

Flammability Flammability standards are different from country to country. Ask your local 3M contact for details, please.

Durability

Unprocessed film

3M™ MCS™ Warranty

The following durability data are given for unprocessed film only!

In addition, 3M provides a warranty on a finished applied graphic within the framework of 3M[™] MCS[™] warranty program.

Horizontal:



The face of the graphic is $\pm 5^{\circ}$ from horizontal.

Horizontal outdoor	Zone 1	Zone 2	Zone 3
exposure			
white	3 months	3 months	3 months

Limitations of End Uses

3M specifically does not recommend or warrant the following uses, but please contact us to discuss your needs to recommend other products.

Graphics applied to

- purposes other than graphics for floors/pavements.
- substrates other than recommended.
- areas with vehicle traffic except for light slow moving traffic.

Graphics subjected to

- gasoline vapors or spills.

Important Notice

- 3M Commercial Graphics Division products are not tested against automotive manufacturer specifications!
- Film has to be protected with the recommended protective overlaminate to provide the needed skid resistance.

Graphics Manufacturing

Graphic protection can improve the appearance, performance and durability of printed graphics. Any printed graphic exposed to abrasive conditions (including vehicles), harsh cleaners or chemicals must include graphic protection in order to be warranted.

When to use an overprint clear or overlaminate

See instruction bulletin GPO 'graphic protection options' for further information about selection and use of protective overlaminates and printable clears.

Graphic for Floors To create a graphic for floors this film has to be protected with the recommended overlaminate. No printable clear available!

> Product Bulletin Graphic Protection Options <

Shipping finished graphics Flat, or rolled film side out on 130 mm (5 inch) or larger core. These methods help to prevent the liner from wrinkling or application tape, if used, from popping off.

Converting **Information**

Screen Printing

Formulations and processing conditions can affect ink durability. Refer to the 3M Product and Instruction Bulletins for your ink for limitations and proper usage. Graphic protection can improve the appearance, performance and durability of your graphic.

A clear coat also prevents chalking on unprinted films. Use equipment designed to handle high viscosity materials and make sure the coating is evenly applied to the specifications given in the clear's Instruction

To create a graphic for floors this film has to be protected with the recommended overlaminate. No printable clear available!

Application

The use of an application tape is neither recommended nor needed.

The following Guide to Substrates will show you some substrates recommended or not recommended for the application of graphics for pavements.

> Scotchprint® Graphics for Pavements - Guide to Substrates - <

Avoid Lifting

Cut radiuses on any sharp corners of the graphic after lamination. Do not apply finished graphic to the edge of tiles. Keep always a distance of a few centimeter to the joints (not edge of graphic to edge of tile).

Refer to Instruction Bulletin 5.1 'select and prepare substrates for graphic application', for general application information.

>Instruction Bulletin 5.1 'select and prepare substrates for graphic application'<

Maintenance and Cleaning

Use a cleaner designed for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline).

Refer to Instruction Bulletin 6.5 'storage, handling, maintenance and removal of films and sheetings', for general maintenance and cleaning information.

>Instruction Bulletin 6.5 'Storage, Handling, Maintenance and Removal of Films and Sheetings'<

Remarks

This bulletin provides technical information only.

Important notice All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the prevailing law.

> Before using, the user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection therewith.

Additional Information

Visit the web site of your local subsidary at www.3Mgraphics.com for getting more:

- details about 3M™ MCS™ Warranty and 3M Performance Guarantee
- additional instruction bulletins
- a complete product overview about materials 3M is offering



Commercial Solutions Division

Responsible for this technical bulletin

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