KP1000

For Solvent-Based Piezo Ink Jet Printing and Eco Solvent Plus Ink

Product Description

Film KP1000 series is available with permanent. Designed for solvent-based piezo ink jet and screen printing where a good quality film is needed for short-term, promotional-type indoor and outdoor graphics, storefronts and product information signs.

Limitations of End Uses

These conditions are not covered by the warranty.

- Application over rivets or corrugated surfaces
- Applications over paint with low adhesion
- Use of the film out of the humidity range specified on this Bulletin can cause liner instability
- Graphic film remove for re-use
- Gasoline spills
- Screen printing with UV curable inks
- UV curable clear graphic protection

Compatible Products

- 3M™ Scotchcal™ Gloss Overlaminate 8518
- 3M™ Scotchcal™ Overlaminates 8519 and 8520
- 3M™ Prespacing Tape SCPS-2

Characteristics

Physical Properties

Characteristic	Value
Film	Calandered vinyl polymeric
Color	White
Gloss	Glossy
Thickness	**With adhesive:** 3.2 mm
Adhesive type and color	Acrylic permanent, pressure sensitive, clear
Liner	90 lb Paper
Roll sizes	54” x 50 yds (1.37 mt x 45mts) 62” x 50 yds (1.57 mt x 45 mts)

Application Properties

Characteristic	Value
Graphic application recommendations	**Surface type:** flat, simple curves **Substrate type:** metal, paint, rigid PVC **Application temperature:** 10° - 32°C (50° - 90°F)
Application method	Dry or wet
Service Temperature Range:	-40° - +180°F (-46° - +82°C)
Process humidity	45% - 55%

Warranty Information

3M will honor the warranty given in the Product Bulletin that is current at the time you purchased the film is the one that 3M will honor. (See instructions in how to acess it on the end of the bulletin).

3M Basic Product Warranty
for individual product limited warranty

3M warrants to the Distributor, Graphics manufacturer and End User that each 3M product will be free of the defects listed below and manufactured to the specification described in the applicable Product Bulletin in effect at the time of purchase. There is no finished graphics warranty given or implied.

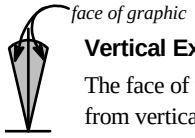
Warranty and Limited Liability

The following is made in lieu of all other express or implied warranties, including any implied warranty of ***merchantability*** *or fitness for a particular purpose:* This film is warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in this Product Bulletin. 3M will replace or refund the price of any 3M materials that do not meet this warranty within the specified time periods.

These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor or non-3M materials charges.

Warranty Notes

Definitions



Vertical Exposure

The face of the graphic is ± 10° from vertical.

Graphic Performance Life

The actual performance life of a graphic depends on the:

- Use of 3M recommended compatible products
- Printing and drying techniques
- Angle and direction of exposure
- Environmental conditions
- Cleaning methods

Graphic Fabrication

This film has been optimized to perform well with a variety of printers and ink systems. It is the graphics manufacturer's responsibility to determine its suitability for use with their printers and inks.

To maximize the effectiveness of this film:

- Use for roll-to-roll printers, not sheet-to-sheet.
- The typical maximum ink limit is 250%.
- Thoroughly dry the film after printing.
- Use only solvent-base clear coats and dry thoroughly, or use a film overlaminate.
- Convert printed graphics from rolls to sheets soon after imaging.
- To minimize edge curling when finished graphics will be sheeted and stacked for an extended period of time, leave a small, unprinted margin (1/4") on all edges.

Screen printing

The KP1000 need to process in the temperature and humidity conditions specify on this bulletin (Application proprieties table)

Electrocut

Factors that can affect the e-cut quality.

- Not sharpen knifes can cause a step appearance
- The wrong weight adjustment. An insufficient weight will not cut the vinyl and a weight excess can mark the liner and cause a step appearance on the vinyl

Removal

Is recommended the use of heat to remove KP1000. During the removal process adhesive residue can be left on the surface. To remove adhesive residue is recommended the use of citrus cleaner like 3M Citrus cleaner.

A chemical remover system is available for graphics printed with solvent-based ink. Follow the procedures in Instruction Bulletin 6.5 for using film remover R-221 and adhesive remover R-231 and for additional removal details.

Graphic Maintenance and Cleaning

Use a cleaner such as the kind used for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents or alcohol, and have a pH value between 3.0 and 11.0 (neither strongly acidic nor strongly alkaline).

The use of any aggressive chemical can change the product performance.

he use of high pressure water jet can damage the product.

Note: Damages because improper maintenance and cleaning are not warranty by 3M

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/msds.
- 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.

Shelf Life, Storage and Shipping

Activity	Recommendation
Shelf life	Process within 6 months of receipt from 3M. Apply within 6 months of processing, not to exceed 1 year total shelf life processed and unprocessed
Storage conditions	Out of sunlight; clean dry area; original container
Maximum storage temperature	90°F (32°C)
Shipping finished graphics	**Flat:** may separate by paper **Roll:** printed side out on 5 inch (13 cm) or larger core

3M Related Literature

Before starting any job, be sure you have the most current product and instruction bulletins.

The information in 3M bulletins is subject to change. Current bulletins, as well as a list of all bulletins updated within the last three months, are available at www.scotchprint.com or through our Fax-on-Demand system. Any warranty, if offered, is based on information in the bulletin that was current at the time you purchased the 3M products. The following bulletins provide the information and processes you need to properly make the graphics described in this bulletin.

Fax-on-Demand phone numbers:
United States or Canada: 1-800-364-0768
International: 1-651-732-6506

Subject	Bulletin No.	FOD No.
Product Bulletins		
3M™ Scotchcal™ Overlaminate 8519 and 8520	8519/8520	4524
3M™ Screen Printing Ink Series 1900 and Overprint Clear VI0402	1900	2501
Instruction Bulletins		
Screen printing with ink series 1900	3.12	6012
Cold roll lamination	4.22	6522
Using 3M application tapes; premasking and prespacing for films	4.3	6503
Application, substrate selection, preparation and substrate-specific application techniques	5.1	7001
Application, general procedures for interior and exterior dry applications	5.5	7005
Storage, handling, maintenance, removal	6.5	8505

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Bulletin Change Summary

A Fabrication section was added. All references to specific printing platforms and inks were removed: this film is strictly for use on a test-and-approve basis. Other changes are marked by a black bar in the margin.