



3M™ Scotchcal™ Graphic Film Series IJ1220/1220C

1. Product Description

3M™ Scotchcal™ Graphic Film Series IJ1220/1220C has the following features:

- Economical, digitally printable white film compatible with solvent, eco solvent, UV and latex inkjet printers.
- Heavy liner helps material resist buckling to print consistently, even though the rigors of digital latex printing.
- Film series IJ1220 has a gray permanent adhesive for excellent hiding power over colored substrates.
- Film series IJ1220C has 3M™ Comply™ Adhesive for fast, easy bubble-free installations.

2. Recommended Types of Graphics and End Uses

Film series IJ1220/1220C is intended for making intermediate graphics in the following applications.

- Flat, permanent adhesive applications such as interior and exterior signage decals and P.O.P.
- Quality film design for short term and promotional type graphics.
- Film IJ1220-114 can be used as a digitally printable clear film and a low cost over-laminate.

A. Limitations of End Uses

The following uses and applications are specifically NOT warranted.

- Application to corrugated surfaces or surfaces with compound curves or stainless steel surface.
- Application to competitive flexible sign substrates

3. Characteristics

These are typical values for unprocessed product; processing may change the values. Contact your 3M representative for a custom specification.

A. Physical Characteristics

Graphic Film	Film Color	Finish	Adhesive Color
IJ1220-10G	White Opaque	Gloss	Clear
IJ1220-10M	White Opaque	Matte	Clear
IJ1220G-10G	White Opaque	Gloss	Gray
IJ1220G-10M	White Opaque	Matte	Gray
IJ1220-114	Transparent	Gloss	Clear
IJ1220C	White Opaque	Gloss	Clear

Characteristic	Value
Material	Calendered Vinyl
Film Thickness	Without adhesive: 100µm With adhesive: 125 µm
Adhesive type	Pressure sensitive Acrylic solvent-based, clear or gray
Liner	Polyethylene-coated paper

B. Application Characteristics

Characteristic	Value
Finished graphic application recommendations	Surface type: Flat, simple curves Substrate type: Metal, rigid plastic and painted substrates Application temperature: <i>air and substrate</i> 13° to 38°C (50° to 100°F)
Application method	Dry
Finished graphic exposure temperature	-50° to +90°C (-59° to +192°F)
Graphic removal	removable with Heat and/ or Chemicals

4. Warranted Information
A. 3M Basic Product Warranty

This product has been tested and is believed to be a good product when used as recommended in this Bulletin. The film is covered by the 3M Basic Product Warranty and is guaranteed to be free of physical and manufacturing defects. There is no warranty for printability, visual appearance, fitness for use or durability. See the [3M Commercial Graphics Warranty Brochure](#) for the complete warranty and remedy details.

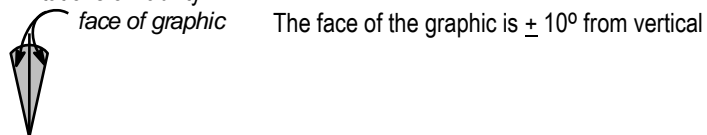
5. Expected Performance Life
A. Expected Performance

Expected Performance Life of 3 years (unwarranted period for unprinted film with no graphic protection, applied to a flat, vertical, outdoor surface). 3M Product and Instruction Bulletins provide practical recommendations for using this product in a way that maximizes performance, but using other 3M products or procedures with this film does not change the terms of the warranty.

B. Warranty and Limited Remedy

The following is made in lieu of all other expressed or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose or implied warranty arising out of a course of dealing, custom or usage of trade: all 3M products are 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 at its sole discretion replace or refund the price of any 3M materials that do not meet this warranty within the specified time periods. These remedies are exclusive to the extent permitted by applicable law. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor or non-3M materials charges. See the [3M Commercial Graphics Warranty Brochure](#) at 3Mgraphics.com/apac, which gives the terms, additional limitations of the warranty, if any, and limitations of liability.

C. Definition of Vertical Exposure



6. Fabrication

All Printing Methods

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

To maximize the film performance:

- The typical maximum solvent ink limit is 250%.
- Thoroughly dry or properly cure the ink before applying graphic protection, and before storing or installing a graphic.
- If you are storing sheeted and stacked finished graphics for an extended period of time, leave an unprinted margin (about 6 mm or 1/4 inch) to allow for possible shrinkage before trimming the graphic.
- Graphic protection can improve the appearance, performance and durability of your graphics. Always use only the graphic protection options recommended in this Bulletin for this film.

3M™ Scotchcal™ Gloss Overlamine 4156

3M™ Scotchcal™ Matte Overlamine 4157

3M™ Scotchcal™ IJ1220-114G

3M™ Scotchcal™ IJ1220-124M

Always use the dry application method.

7. Shelf Life, Storage and Shipping

Activity	Recommendations
Shelf life	Total shelf life: Apply within 6 months of processing, not to exceed 1 year total shelf life processed and unprocessed.
Storage conditions	<ul style="list-style-type: none"> • 90°F (32°C) maximum • Out of direct sunlight • Clean, dry area • Original container
Shipping finished graphics	Flat: may be separated by paper Roll: printed side out on 5 inch (13 cm) diameter or larger core

8. Health and Safety



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 go to 3M.com/MSDS, 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 manufacturers' instructions for safe operation.

9. 3M Related Literature

Before starting any job, be sure you have the most current Product and Instruction Bulletins.

The information in 3M Product and Instruction Bulletins is subject to change. Current Bulletins are available at 3Mgraphics.com/apac. The following applicable Bulletins provide information and processes you need to properly make the graphics described in this Bulletin. Additional Bulletins may be needed as indicated in the 3M Related Literature section of other 3M components you use.

Subject	Type	Bulletin No.
Bulletin types: PB = Product Bulletin; IB = Instruction Bulletin		
3M Graphic Protection Products <i>overview of all graphic protection products and specific information on most overlaminates</i>	PB	GP-1
Application, substrate selection, preparation and substrate-specific application techniques	IB	5.1
Application guide to smooth and textured walls	IB	5.37

Application, general procedures for indoor and outdoor dry applications	IB	5.5
Storage, handling, maintenance, removal	IB	6.5
3M Commercial Graphics Warranty Brochure go to www.3Mgraphics.com/apac		
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10. Bulletin Change Summary

Updated shelf life statement to 12 months from date of manufacture



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