



## New economy line of inkjet films

### Uses

- Everyday films for flat, permanent adhesive applications such as interior and exterior signage, decals and P.O.P.
- Film IJ10-114 can be used as a digitally printable clear film and a low-cost overlaminate

### Key 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 through the rigors of digital latex printing
- Film series IJ11 has a gray, pressure-sensitive adhesive for excellent hiding power over colored substrates
- Film series IJ10 has a clear, pressure-sensitive permanent adhesive
- Available in 54" x 50 m rolls (738 sq. ft.), 63 sq. ft. more than competitive 50 yd. rolls
- 3-year expected performance life

### Benefits

- 3M film at a budget-friendly price
- Shops can promote 3M media for all types of projects from budget to premium

### Related Literature

- Product and Instruction Bulletins may be viewed and printed from our website at [3Mgraphics.com](http://3Mgraphics.com)

3M™ Scotchcal™ Graphic Film 3.1 mil calendered vinyl film	Film Color	Finish	Adhesive Color
IJ10-10T	White opaque	Gloss	Clear
IJ10-20T	White opaque	Matte	Clear
IJ10-114	Transparent	Gloss	Clear
IJ11-10	White opaque	Gloss	Gray
IJ11-20	White opaque	Matte	Gray



# 3M™ Scotchcal™ Graphic Film Series IJ10 & Series IJ11

## 1. Characteristics

All values are typical for unprocessed film and are not for use in specifications. Contact your 3M representative for a custom specification.

### A. Physical Characteristics

Graphic Film	Film Color	Finish	Adhesive Color
IJ10-10T	White opaque	Gloss	Clear
IJ10-20T	White opaque	Matte	Clear
IJ10-114	Transparent	Gloss	Clear
IJ11-10	White opaque	Gloss	Gray
IJ11-20	White opaque	Matte	Gray

Characteristic	Value
Material	Vinyl, calendered
Film thickness	<b>Without adhesive:</b> 3.1 mil (0.08 mm) <b>With adhesive:</b> 3.6 mil (0.09 mm)
Adhesive type	Pressure-sensitive
Liner	Polycoated paper

### B. Application Characteristics

Finished graphic application recommendations	<b>Surface type:</b> Flat <b>Substrate type:</b> Metal, rigid plastic and painted substrates <b>Application temperature:</b> <i>air and substrate</i> 55° to 100°F (13° to 38°C)
Application method	Dry
Finished graphic exposure temperature	-30° to +200°F (-34° to +93°C)
Graphic removal	Permanent

## 2. Wall Graphics

Two-mil cast films are typically the best choice for indoor smooth surface wall graphics, although this film may be suitable for short term applications. In either case, the user is responsible for determining the product's suitability, including adhesion and, if required, removal characteristics. Due to the wide variability of smooth indoor walls, neither finished graphics nor removal is warranted, even for removable or changeable films. [Instruction Bulletin 5.37](#) provides comprehensive information for the most successful wall graphics film selection and application.

## 3. Warranty and Durability

### 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.

### B. Expected Performance Life (not a warranted durability)

3 years in a vertical exposure with typical usage

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.

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C. 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 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.**

See the [3M Commercial Graphics Warranty Brochure](#) at 3Mgraphics.com, which gives the terms, additional limitations of the warranty, if any, and limitations of liability.

D. Definition of Vertical Exposure



*face of graphic* The face of the graphic is  $\pm 10^\circ$  from vertical.

4. Fabrication

A. 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 1/4 inch or 6 mm) to allow for possible shrinkage before trimming the graphic.
- Graphic protection provides additional protection for the graphic but does not change the expected performance life. 3M™ Scotchcal™ Graphic Film IJ10-114, 3M™ Scotchcal™ Luster Overlaminates 8509 and 3M™ Scotchcal™ Matte Overlaminates 8508 are cost-effective options for use with 3M's promotional graphic films.
- Always use the dry application method.

5. Shelf Life, Storage and Shipping

Activity	Recommendations
Shelf life	Total shelf life: 12 months from the date of manufacture on the original box. Process and apply film within this time period.
Storage conditions	<ul style="list-style-type: none"> <li>• 90°F (32°C) maximum</li> <li>• Out of direct sunlight</li> <li>• Clean, dry area</li> <li>• Original container</li> </ul>
Shipping finished graphics	Flat: may be separated by paper Roll: printed side out on 5 inch (13 cm) diameter or larger core



## 6. 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 go to [3M.com/MSDS](http://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.

## 7. 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](http://3Mgraphics.com). 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 <a href="http://www.3Mgraphics.com/Warranties">www.3Mgraphics.com/Warranties</a>	

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## 8. Bulletin Change Summary

Updated shelf life statement to 12 months from date of manufacture.



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