

## Product Bulletin IJ15 & IJ16

Release C, Effective Jun 2017

# 3M<sup>™</sup> Scotchcal<sup>™</sup> Graphic Film Series IJ15 and IJ16

1.	Product Description	<ul> <li>For Solvent, Eco-Solvent UV and Latex Inkjet Printing and Screen Printing.</li> <li>3.5-4.0 mils monomeric calendared vinyl film.</li> <li>Available in gloss and matte finishes</li> <li>Pressure-sensitive adhesive</li> <li>Expected Performance Life of 12 months (unwarranted period for unprinted film with no graphic protection, applied to a flat, vertical, outdoor surface)</li> <li>Splice-free graphic film that increases productivity and efficiency while reducing waste</li> </ul>	
2.	Recommended Types of Graphics and End Uses	<ul> <li>For IJ15-10, IJ15-20, IJ16-10, IJ16-20 film:</li> <li>Short term, indoor and outdoor promotional graphics</li> <li>Signs, trade show and point-of-purchase displays</li> <li>For IJ15-114 and IJ15-124 clear film:</li> <li>Translucent graphics and signs for exterior and interior windows</li> <li>Two-faced signs</li> <li>Internally lit exterior and interior signs, in vertical position</li> <li>As an overlaminate for IJ15 or IJ16 Series</li> <li>The following uses and applications are specifically NOT warranted.</li> <li>Application to corrugated surfaces or surfaces with compound curves or stainless steel surface</li> <li>Application to competitive flexible sign substrates</li> </ul>	
	A. Limitations of End Uses		
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	Characteristic	Value
		Material	Monomeric Calendered Vinyl
		Film Thickness	Without adhesive: 3-4 mils (0.07-0.10 mm)

Characteristic	value	
Material	Monomeric Calendered Vinyl	
Film Thickness	Without adhesive: 3-4 mils (0.07-0.10 mm)	
	With adhesive: 3.5-4.5 mils (0.09-0.11mm)	
Film Finishing	IJ15-10: White with Gloss finish	
	IJ15-20: White with Matte finish	
	IJ15-114: Clear with Gloss finish	
	IJ15-124: Clear with Matte finish	
	IJ16-10: White with Gloss finish	
	IJ16-20: White with Matte finish	
Adhesive Color	IJ15-10: Clear	
	IJ15-20: Clear	
	IJ15-114: Clear	
	IJ15-124: Clear	
	IJ16-10: Grey	
	IJ16-20: Grey	
Adhesive type	Acrylic, pressure sensitive	
Liner	Polycoated Kraft Paper 140±5 g/m <sup>2</sup>	

B. Application	Characteristic	Value	
Characteristics	Finished graphic application recommendations	<b>Surface type:</b> Smooth, flat and simple curved surfaces <b>Substrate type:</b> Metal, rigid plastic and painted surfaces <b>Application temperature:</b> 4° – 38°C (40° – 100°F) air and substrate	
	Application method	Dry	
	Finished graphic	5° to +38°C (40° to +100°F )	
	exposure temperature		
	Graphic removal	Permanent	
4. Warranted Information A. 3M Basic Product Warranty	following all applicable and cu warranty period for eligible gra Matrices found at <u>3MGraphics</u> purchased. The warranty peri certain constructions and app	ach graphic is based on the user both reading and urrent 3M Product and Instruction Bulletins. The aphics is as stated in the 3M Graphics Warranties <u>s.com/warranties</u> , at the time that the film was iod may be reduced and stipulations may apply for lications, as covered in the 3M Graphics Warranties	
	Bulletin found at <u>3MGraphics</u>	.com/warranties.	
	The warranties set forth in the Warranty Bulletin are made in lieu of all other express or implied warranties, including any implied warranty of merchantability, fitness for a particular purpose, or arising out of a course of dealing, custom or usage of trade.		
3M Graphics Products are warranted to be free of manufacture at the time of shipment and to mee applicable 3M Graphics Product Bulletin and as Graphics Warranties Bulletin.		ipment and to meet the specifications stated in its uct Bulletin and as further set forth in the <u>3M</u>	
5. Expected Performance Life A. Expected Performance	1 year 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.		
B. Warranty and Limited Remedy	The limited remedy applicable Warranties Bulletin found at 3	e to each warranty is addressed in the 3M Graphics	
	CIRCUMSTANCES BE LIABI (EXCEPT FOR THE LIMITE) WARRANTIES BULLETIN), I CONSEQUENTIAL DAMAG NON-3M MATERIAL CHARG	IW, 3M SHALL NOT UNDER ANY LE TO PURCHASER OR USER FOR ANY DIRECT D REMEDY PROVIDED IN THE 3M GRAPHICS NDIRECT, SPECIAL, INCIDENTAL, OR ES (INCLUDING, BUT NOT LIMITED TO, LABOR, SES, LOSS OF PROFITS, REVENUE, BUSINESS, WILL) RESULTING FROM OR IN ANY WAY	
C. Definition of Vertical Exposure	terms, additional limitations of	ties Bulletin at <u>3MGraphics.com/warranties</u> , for f your warranty, if any, and limitations of liability. The face of the graphic is <u>+</u> 10° from vertical	

6. Fabrication	Before using any equipment, always read the manufacturer's instructions for safe operation.		
Inkjet Printing	Sheeted film: When     produce printing defe		
	Ink limiting: The reco	ommended maximum ink limit is 250%.	
	and stacked finished of unprinted margin (abo trimming the graphic. Do not exceed the recomm this film. Having too high a characteristic changes, inc	d graphics will be stored: If you plan to store sheeted graphics for an extended period of times, leave an out 1/4 inch) to allow for possible shrinkage before nended total ink coverage for the ink series used on total physical ink amount on the film results in media omplete drying, overlaminate lifting, and/or poor	
	graphic performance.		
	<b>Completely Dry Graphics</b> <b>IMPORTANT NOTE</b> Incomplete drying can result in graphic failure including curling, increased shrinkage and adhesion failure, which are not covered under any 3M Graphic Warranty.		
	See the ink's 3M Product and Instruction Bulletin for more details.		
Screen Printing	Formulations and processing conditions can affect ink durability. Refer to the Product and Instruction Bulletins for your ink for limitations and proper usage.		
Cutting	See <u>3M Instruction Bulletin 4.1</u> for Sheeting, Scoring and Film Cutting details. Graphic protection may improve the appearance, performance and durability of the graphic. 3M <sup>™</sup> Scotchcal <sup>™</sup> Gloss IJ15-114 3M <sup>™</sup> Scotchcal <sup>™</sup> Matte IJ15-124		
Graphic Protection			
7. Shelf Life, Storage and	Activity	Recommendations	
Shipping	Shelf life	The shelf life is <b>never more than 1 year</b> from the	

ACTIVITY	Recommendations	
Shelf life	The shelf life is <b>never more than 1 year</b> from the date of manufacture on the original box. If you process the film, the shelf life is changed to <b>6 months</b> from the processing date.	
Storage conditions	<ul> <li>32 °C (90°F) maximum</li> <li>40-50% humidity</li> <li>Out of sunlight</li> <li>Clean, dry area</li> <li>Original container</li> <li>Bring the film to print room temperature before using</li> </ul>	
Shipping finished graphics	Flat: may be separated by paper Roll: printed side out on 13 cm (5 inch diameter or larger core	

8. Health and Safety

9. 3M Related Literature



When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety and environmental information. To obtain SDS sheets for 3M products go to <u>3M.com/SDS</u>, 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

When using any equipment, always follow the manufacturers' instructions for safe operation.

## 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 <u>3Mgraphics.com/apac</u>. 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	Туре	Bulletin No.		
Bulletin types: PB = Product Bulletin; IB = Instruction Bulletin				
3M Graphic Protection Products overview of all	PB	GP-1		
graphic protection products and specific information on most overlaminates				
Hot and Cold Roll Lamination for 3M Overlaminates	IB	4.22		
Select and Prepare Substrates for Graphic Application	IB	5.1		
Lamination, Application & Maintenance of Floor Graphics.	IB	5.19		
Complete the Surface Preparation procedure found in				
this Instruction Bulletin prior to applying a graphic to a surface.				
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

For the most current 3M Technical Information available to successfully use this product, please view this Bulletin electronically and click on the blue underlined links to view the relevant documents. This Bulletin has been substantially changed to remove warranty information and replace it with references to the new Graphics Warranties Website. Please read the entire Bulletin thoroughly.



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