



Scotchcal™ Graphic Film

with Comply™ Adhesive

Series IJ35C



For Inkjet Printing with Solvent, UV and Latex Inks and Screen Printing

1. Product Description

A. Product Features

- 3.2-mil vinyl film
- Available in gloss and matte finishes
- Pressure-sensitive adhesive with Comply™ Adhesive for fast, easy bubble-free installations
- Permanent

B. Suggested Uses

The user is responsible for determining the product's suitability for the intended application. This product should be used on a test-and-approve basis.

- Short to long-term, indoor and outdoor promotional graphics
- Signs, trade show and point-of-purchase displays
- Exhibits and architectural applications

C. Expected Performance Life

Expected Performance Life as a good faith estimate of how long the product may perform satisfactorily based on 3M testing. Note, there is no warranty associated with this estimate.

5 years in a vertical orientation with typical usage

Note: 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.

D. Wall Graphics

Two-mil cast films are typically the best choice for indoor smooth surface wall graphics, although this film may be suitable for shorter 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.

2. 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

Characteristic	Value
Material	Vinyl
Color	White opaque
Gloss	Gloss IJ35C-10 Matte IJ35C-20
Film thickness	Without adhesive: 3.2 mil (0.081 mm) With adhesive: 4.0 mil (0.102 mm)
Adhesive type	Pressure-sensitive
Adhesive color	Gray
Liner	Polycoated paper
Flammability	Call 1-800-328-3908 for information.

Continued on next page...

B. Application Characteristics

Characteristic	Value
Finished graphic application recommendations	Surface type: Smooth, flat and simple curved surfaces Substrate type: Metal, rigid plastic and painted substrates Application temperature: <i>air and substrate</i> 40° to 100°F (4° to 38°C)
Application method	Dry
Finished graphic exposure temperature	-59° to +192°F (-50° to +90°C)
Graphic removal	Permanent

3. Definitions

A. Exposure Types

U.S. Vertical Exposure



face of graphic

The face of the graphic is +/- 10° from vertical.

4. Warranty Information

A. Warranty Coverage Overview

This film is covered by the 3M Basic Product Warranty. It has been tested and is believed to be a good product when used as recommended in this Product Bulletin. However, there is no assurance or guarantee for the following:

- printability.
- visual appearance.
- fitness for use.
- removability or changeability.
- damage to the substrate.
- durability.

B. 3M Basic Product Warranty

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 or implied warranty arising out of a course of dealing, custom or usage of trade.

This 3M Product 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 and as further set forth in the [3M Commercial Graphics Warranty Brochure](#).

C. Limited Remedy

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.

D. Additional Limitations

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.

5. Limitation of Liability

Except where prohibited by law, 3M SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO PURCHASER OR USER FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LABOR, NON-3M MATERIAL CHARGES, LOSS OF PROFITS, REVENUE, BUSINESS, OPPORTUNITY, OR GOODWILL) RESULTING FROM OR IN ANY WAY RELATED TO SELLER'S PRODUCTS OR SERVICES. This limitation of liability applies regardless of the legal or equitable theory under which such losses or damages are sought including breach of contract, breach of warranty, negligence, strict liability, or any other legal or equitable theory.

6. Graphic Manufacturing

A. All Printing Methods

This film has been optimized to perform well with a variety of inkjet printers and inks as well as screen printing inks and processes. 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:

- Use graphic protection. 3M™ Scotchcal™ Gloss Overlamine 8508 or Luster Overlamine 8509 are cost-effective options for use with 3M's intermediate graphic films.
- Thoroughly dry the ink and film or properly cure the ink before applying graphic protection, and before storing or installing a graphic.
- Always use the dry application method.

B. Inkjet Printing Only

- Be aware that using sheeting film on a flat-bed inkjet printer may produce printing defects.
- The typical maximum ink limit is 250%.
- If you are storing sheeted and stacked finished graphics for an extended period of time, leave an unprinted margin (about 1/4 inch) to allow for possible shrinkage before trimming the graphic.

7. Shelf Life, Storage and Shipping

A. Shelf Life

Total shelf life: 2 years from the date of manufacture on the original box.

If you do process the film, do so within 1 year and apply within 1 year of processing. (Example: If you process at month 6, apply by month 18.)

If you do not process the film, apply it within 2 years.

B. Storage Conditions

- 90°F (32°C) maximum
- Out of direct sunlight
- Clean, dry area
- Original container
- Bring the film to print room temperature before using

C. Shipping Finished Graphics

Flat (may be separated by paper), or rolled printed side out on 5 inch (13 cm) or larger core. This helps prevent the liner and, if used, the application tape from popping off.

8. 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, 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. The techniques described in these Bulletins are required when applying a 3M warranted graphic, but are also practical recommendations when using promotional materials for non-warranted graphics. Additional Bulletins may be needed as indicated in the 3M Related Literature section of other 3M components you use.

Bulletin types: PB = Product Bulletin; PB-IB = Product & Instruction Bulletin; IB = Instruction Bulletin

Subject	Type	Bulletin No.
3M Graphic Protection Products <i>overview of all graphic protection products and specific information on most overlaminates</i>	PB	GP-1
Scoring and cutting	IB	4.1
Hot and cold roll lamination	IB	4.22
Using 3M application tapes; premasking and prespacing for films	IB	4.3
Application, substrate selection, preparation and substrate-specific application techniques	IB	5.1
Application, general procedures for indoor and outdoor dry applications	IB	5.5
Storage, handling, maintenance, removal	IB	6.5

[3M Commercial Graphics Warranty Brochure](#)

3M, Comply and Scotchcal are trademarks of 3M.

10. Bulletin Change Summary

New and modified content is marked with a black bar in the margin. Added inkjet printing with latex inks as a possible printing platform. Updated warranty information.



Commercial Graphics

3M Center, Building 220-12E-04
St. Paul, MN 55144 USA
General & Technical
1-800-328-3908
Fax 1-651-736-4233

3M Canada

PO Box 5757
London, Ontario
Canada N6A 4T1
General
1-800-265-1840
Fax 519-452-6245

3M México S.A. de C.V.

Av. Santa Fe No. 55
Col. Santa Fe, Del. Alvaro Obregón
México D.F. 01210
General 5255-5270-0400
Fax 5255-5270-2277

3M Puerto Rico, Inc.

350 Chardon Avenue
Suite 1100
San Juan, PR 00918
General 787-620-3000
Fax 787-620-3018