

Scotchcal™ Graphic Film

Series 10

Product Bulletin

Product Description

These monomeric calendered films offer great versatility making them perfect for indoor and outdoor signs and fleet graphics.

Transparent films are intended for use as printable basefilm and protective overlaminate.

Product Line Inkjet printing SC IJ10-10T white, opaque, gloss, permanent adhesive (clear).

SC IJ10-20T white, opaque, matte, permanent adhesive (clear). SC IJ10-114 white, transparent, gloss, permanent adhesive

Product Characteristics

Product
These are typical values for unprocessed products.
Contact your 3M representative for a custom specification.

Physical & Application Material calendered vinyl (monomeric)

Surface finish white films: glossy and matte; transparent film: glossy only (see

Thickness (film) 80 µm (0.08 mm)

Adhesive type solvent acrylic, pressure-sensitive

Adhesive appearance clear

Liner adhesive-sided Polyethylene coated paper

Adhesion 15 N/25 mm FTM 1: 180° peel, substrate: glass; cond: 24 h 23°C /50%RH

Application method dry only!

Applied shrinkage < 0.7 mm FTM 14

Application +10℃ minimum (air and substrate)

Service temperature -20℃ to +70℃

Surface type flat

Substrate type aluminum, glass, PMMA, PC*, ABS, paint

PC*: Polycarbonates might require drying with heat before use

Graphic removal Fair to remove with heat and/or chemicals from supported

No liability is given for ease or speed of removal of any graphic.

Durability Unprocessed film The following durability data are given for unprocessed film only!

Graphic durability is largely determined by the climate and the

Vertical outdoorNorthernMediterraneaAfrica & GulfexposureEuropenareawhite12 months9 months6 monthstransparent12 months9 months6 months

Interior application

interior 12 months 12 months 12 months

Definitions Vertical: face of graphic ±10° from vertical

Interior: application in-side a building without direct

Storage Shelf life 1 year from the date on the original box

Storage conditions! +4℃ to +40℃, out of sunlight, original container in clean and dry

area.

Flammability Flammability standards are different from country to country. Ask your local 3M contact

for details, please.

Limitations of End Uses

3M specifically does not recommend or warrant the following uses, but please contact us to discuss your needs to recommend other products.

Graphics applied to - flexible substrates incl. Panaflex[™] and Panagraphics[™].

- low surface energy substrates or substrates with low surface energy coating.

- other than flat surfaces.

- painted or unpainted wallboards, gypsum boards and wallpapers.

- stainless steel.

- surfaces that are not clean and smooth.

- surfaces with poor paint to substrate adhesion.

Graphic removal from - signs or existing graphics that must remain intact.

Graphics subjected to - gasoline vapors or spills.

Important Notice - 3M Commercial Graphics Division products are not tested against

automotive manufacturer specifications!

- Wet application method is not recommended for this film.

- Non vertical applications will have a significant decrease in durability!

Graphics Manufacturing

overlaminate

Graphic protection can improve the appearance, performance and durability of your graphic. Any graphic exposed to abrasive conditions (including vehicles), harsh cleaners or chemicals must include graphic protection in order to be warranted.

When to use an See instruction bulletin GPO 'graphic protection options' for further information about overprint clear or selection and use of protective overlaminates and printable clears.

> Product Bulletin Graphic Protection Options <

graphics

Shipping finished Flat, or rolled film side out on 130 mm (5 inch) or larger core. These methods help to prevent the liner from wrinkling or application tape, if used, from popping off.

Converting Information Inkjet Printing

A too high total physical ink amount on the film results in media characteristic changes, inadequate drying, overlaminate lifting, and/or poor graphic performance. The maximum recommended total ink coverage for this film is 270%.

Graphics

Adequately Dry Inadequate drying can result in graphic failure including curling, increased shrinkage and adhesion failure, which are not covered under warranty. Build enough time into your process to ensure adequate drying of the graphic.

> Poorly dried film becomes soft and stretchy, and the adhesive becomes too aggressive. 3M recommends at least a minimum drying time of 24 hrs before further processing. Dry the graphic unrolled or at least as a loose wound roll standing upright.

Application

See product bulletin ATR 'application tape recommendations' for information about selection and use of suitable application tapes for this product, please.

> Product Bulletin Application Tape Recommendations <

Refer to Instruction Bulletin 5.1 'select and prepare substrates for graphic application', for general apllication information.

>Instruction Bulletin 5.1 'select and prepare substrates for graphic application'<

Maintenance and Cleaning

Use a cleaner designed for high-quality painted surfaces. The cleaner must be wet, nonabrasive, without strong solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline).

Refer to Instruction Bulletin 6.5 'storage, handling, maintenance and removal of films and sheetings', for general maintenance and cleaning information.

>Instruction Bulletin 6.5 'Storage, Handling, Maintenance and Removal of Films and Sheetings'<

Remarks

This bulletin provides technical information only.

Important notice All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the prevailing law. Before using, the user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection

Additional Information

Visit the web site of your local subsidary at www.3m.eu/graphicsolutions for getting more:

- details about 3M™ MCS™ Warranty and 3M™ Performance Guarantee
- additional instruction bulletins
- a complete product overview about materials 3M is offering

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