



Scotchcal™ Graphic Film

Series IJ3650

Description

Advantages

- Withstand occasional spills of petroleum products
- Excellent image performance with UV, solvent, eco-solvent and low solvent piezo ink jet printers
- Excellent hiding power (opacity)
- Removable with heat and/or chemicals
- For MCS™ warranted premium applications

Product Line

IJ3650-10	White, semi-gloss
IJ3650-114	Transparent, semi-gloss

Characteristics

This information is subject to change. These values are typical for unprinted film and are not intended for use in specifications. Be sure this is the most current Product Bulletin. See **3M Related Literature** at the end of this bulletin.

Property	Description
Film	0.05 mm opaque gloss cast vinyl
Thickness (film and adhesive)	0.08 – 0.10 mm
Adhesive type and color	Pressure sensitive, grey colored (IJ3650-10), clear (IJ3650-114)
Liner	Polyethylene coated paper, 150 g/m ²
Application surface	Flat, with and without rivets, simple curves, moderate compound curves and corrugations
Application substrates	ABS, aluminum, chrome, glass, fiberglass reinforced plastics, paint
Application temperature (air and substrate)	16°C – 38°C
Removal	Removal with heat and/or chemicals from most substrates

Service temperature range	-60°C to +107°C
Tensile strength	22 N/25 mm at 23°C
Applied shrinkage	0.4 mm
Shelf life	2 years after receipt from 3M (dry conditions, Temp. < 38°C)

Effective Performance Life

When manufactured, applied and maintained in accordance with 3M recommended procedures, graphics produced on 3M™ Scotchcal™ Graphic Film 3650 and protected with selected 3M™ Scotchcal™ Overlaminates a warranty founded on 3M™ MCS™ will be given by 3M.

Performance statements are based upon representative experience obtained from testing throughout Europe. Actual performance will be determined by substrate selection and preparation, maintenance of the marking and exposure conditions.

When to Use an Overprint Clear or Overlaminates

An overprint clear or overlaminates provides protection to a graphic as well as changing gloss. Typically, only graphics that are subjected to harsh conditions require this protection in order to be warranted. They include:

- Vehicle and fleet graphics; such graphics are subjected to abrasion such as road debris and automatic/power washing.
- Any graphic exposed to abrasive washing conditions, including automatic/power washing, harsh cleaners or chemicals.

Warranted Durability

- The 3M™ MCS™ Warranty statement for 3M™ Scotchcal™ Graphic Film 3650 is based on chosen media construction.
- Please refer to the European MCS™ Product Warranty Chart for details. The Product Warranty Chart is available on request from your local 3M contact.

Limitations of End Uses

Specifically, we do not warrant this film for the following:

- Graphics applied to:
 - Stainless steel.
 - Non-3M films (see paragraph Removal).
 - Substrates that do not have a clean, smooth surface.
 - Compound contours.
- Graphic removal from:
 - Applications with poor paint-to-substrate adhesion.
 - Existing graphics that must remain intact. Damage may occur during removal of film 3650.
- Graphics made for automotive Original Equipment Manufacturers (OEM), please contact 3M Automotive Division.

Application Tapes

	Prespace Tape	Premask Tape
Unprinted	SCPS-100	SCPS-19
Printed, with overlamine	SCPS-100	SCPS-19

See Instruction Bulletin 4.3 for details.

Removal

3M™ Scotchcal™ Graphic Film 3650 can be removed with heat and/or with chemicals (within warranted period of time). Removing film 3650 from pre-existing graphic will damage that graphic.

Important Notice

This bulletin provides technical information only. 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 therewith.

Related 3M Literature

3M offers for all products detailed technical literature. Additionally, comprehensive instruction bulletins are available describing in detail the best usage of our products.

Ask your local 3M contact or refer to local Commercial Graphics internet pages to get the most current product and/or instruction bulletins.

For Further Assistance

For help on specific questions relating to 3M Commercial Graphics products, please contact your local 3M Technical Service person or contact:

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