



Scotchcal™ General Purpose Graphic Film Series 30

Description

3M™ Scotchcal™ 30 Film Series is

- Opaque calandared vinyl films
- Available in 39 glossy and 35 matte colours
- for exterior / interior markings
- Application to flat surfaces on vehicles, signs, windows and display graphics

Limitations of End Uses

Wet application is not recommended.

The following uses and applications are specifically NOT warranted.

- Application to corrugated surfaces (with and without rivets)
- Application to compound curved surfaces (A compound curve is one in which the film is stretched in two directions over a sharp angle.)
- Application to flexible sign materials, banner, Panaflex or Panagraphics
- Exposure to petroleum products or solvents

Graphics for automotive Original Equipment Manufacturers (OEM): 3M Commercial Graphics Division products are not tested against automotive manufacturers' specifications.

Product Data

These values are typical and are not intended for use in specifications. You may submit a request for a custom specification to your 3M sales representative.

Physical Property	Metric Units
Dimensional stability (FTM 14)	≤ 0.6 mm
Service temperature range	-40 to +80°C
Tensile strength, minimum (DIN EN ISO 527)	
Glossy and matte version	md >18 N/mm ² cd >18 N/mm ²
Thickness (film only)	0.070 mm ± 10%
Thickness of film and adhesive (ISO 4593)	0.100 mm ± 10%
Gloss (glossy version) 60°	> 80

Chemical Resistance

Resists mild acids, alkalis and salts.

Peel Adhesion (FTM1)

Substrate	Metric Units N/25 mm
Stainless steel	<10

Note: The ISO number refers to standards of the International Standards Organization.

FTM (Finat Test Method) refers to test methods listed by FINAT, the Association of European Tape Manufacturers.

Characteristics

Property	Description
Adhesive SC30	Removable pressure sensitive
Adhesive color	Clear
Liner SC 30	120g/m ² paper
Application substrate	Automotive paints, glass, acrylic, aluminum, painted steel
Minimum application temperature (air, film, substrate)	> +10 °C

Note: The ISO number refers to standards of the International Standards Organization.

Effective Performance Life

The effective performance life for 3M Scotchcal General Purpose Film Series 30 is based on field experience and exposure tests conducted throughout Europe. When the graphics are processed and used according to 3M recommendations, they should have the performance life shown in the charts next page. The actual performance depends on the:

- Selection and preparation of the substrate
- Application methods
- Exposure conditions
- Cleaning methods

Vertical Exposure

Zone 1: Northern and Central Europe

Zone 2: Mediterranean Europe

Zone 3: Northern Africa and Middle East

Unprinted	Zone 1	Zone 2	Zone 3
Black/white			
Durability*	5 years	3 years	2 years
3M™ MCS™ Warranty	3 years	2 years	1 year
Colors			
Durability*	4 years	2 years	1 year
3M™ MCS™ Warranty	2 years	1 year	6 mths
Metallics (glossy only)			
Durability*	2 years	1 year	6 mths
3M™ MCS™ Warranty	1 year	6 mths	3 mths
SC 30 Printed with ink series 1900 and 9700			
3M™ MCS™ Warranty	2 years	1 year	6 mths

* Durability is not warranted by 3M

Shelf Life, Storage and Shipping

Follow these guidelines to store and ship this film and the processed graphics.

- Film and markings must be stored in a clean area, free from excessive moisture and direct sunlight, with ambient temperatures of <35°C.
- The combined shelf life as processed and unprocessed film cannot exceed 2 years from the date you receive the film. However, the film must be used within one year of processing even if the combined shelf life is less than 2 years.

Premasking and Prespacing

The 3M Premasking or Prespacing Tape you use depends on the type of graphic produced and the overprint clear system. For graphics that have large amounts of exposed liner, use a prespacing application tape. If there is very little exposed liner, use a premasking application tape.

	Prespacing Tape	Premasking Tape
Unprinted	SCPS-100 IATecg	SCPM-19 IAT ecg
Printed		
Series 1900 inks	SCPS-100 IAT ecg	SCPM-19 IAT ecg
Series 9700 inks	SCPS-2	SCPS-100

Removal

3M™ Scotchcal™ General Purpose Film Series SC30 is warranted to be removable with adhesive residue for the warranty period using no heat for the removal process.

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.

Health & Safety

Refer to the package label and the Material Safety Data Sheet for health, safety, and handling information on the products referenced in this bulletin. For 3M products, if necessary, you may contact our Toxicology/Product Responsibility Department.

3M Related Literature

- Application Instructions (4.1; 4.3; 5.1; 5.2; 5.5)
- Design of Graphics (2.1)
- Cleaning, Maintenance and Removal (6.5)
- Printing instructions (3.11; 3.12; 3.13; 3.4)

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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The use of trademark signs and brand names in this bulletin is based upon US standards. These standards may vary from country to country outside the USA.

Bulletin Change Summary

The removability has been changed to removal with adhesive residue.

The intermediate application tape has been added to the Premasking and Prespacing table.

No application allowed to banner etc.