



# 3M™ Scotchcal™ General Purpose Graphic Film Series 30

## Description

3M Scotchcal General Purpose Film Series 30 are

- Opaque calandered vinyl films
- Available in 39 gloss and 35 matte colours
- Removable films
- For exterior / interior markings
- For application to flat surfaces on vehicles, signs, windows and display graphics

## Limitations of End Uses

The following uses and applications are specifically NOT warranted.

- Application to corrugated surfaces (with and without rivets)

- Application to flexible sign materials, banner, 3M™ Panaflex™ Awning and Sign Facing 945 GPS or 3M™ Panagraphics™ II Intermediate Flexible Sign Face Substrate .
- Application to compound curved surfaces (A compound curve is one in which the film is stretched in two directions.)
- 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 Line

Number	Colour/Gloss	Number	Colour/Matte
30-10	Gloss White	30-100	Matte White
30-11	Gloss Transparent	30-110	Matte Transparent
30-12	Gloss Black	30-120	Matte Black
30-23	Gloss Stone Yellow	30-240	Matte Lemon Yellow
30-248	Gloss Light Yellow	30-2480	Matte Light Yellow
30-255	Gloss Sun Yellow	30-250	Matte Bright Yellow
30-26	Gloss Yellow	30-270	Matte Sunflower
30-33	Gloss Medium Orange	30-330	Matte Medium Orange
30-40	Gloss Orange Red	30-400	Matte Orange Red
30-462	Gloss Cherry Red	30-4640	Matte Fire Red
30-464	Gloss Fire Red	30-4780	Matte Geranium Red
30-475	Gloss Medium Red	30-480	Matte Red
30-478	Gloss Geranium Red	30-4840	Matte Light Deep Red
30-48	Gloss Red	30-530	Matte Light Gold
30-495	Gloss Dark Burgundy	30-580	Matte Aluminium
30-54	Gloss Gold	30-630	Matte Pink
30-585	Gloss Anthracite	30-670	Matte Violet
30-63	Gloss Magenta	30-720	Matte Light Green
30-67	Gloss Violet	30-730	Matte Apple Green
30-72	Gloss Light Green	30-7460	Matte Bright Green
30-73	Gloss Grass Green	30-7550	Matte Green
30-746	Gloss Bright Green	30-780	Matte Dark Green
30-76	Gloss Medium Green	30-790	Matte Teal
30-775	Gloss Forest Green	30-7920	Matte Aqua
30-788	Gloss Turquoise	30-810	Matte Soft Blue
30-795	Gloss Dark Aqua	30-8340	Matte Blue
30-81	Gloss Soft Blue	30-870	Matte Vivid Blue
30-813	Gloss Medium Blue	30-8780	Matte Ultramarine
30-825	Gloss Olympic Blue	30-8820	Matte Deep Blue
30-834	Gloss Sky Blue	30-88	Matte Medium Blue
30-864	Gloss Traffic Blue	30-890	Matte Dark Blue
30-87	Gloss Brilliant Blue	30-9140	Matte Beige
30-882	Gloss Deep Sapphire Blue	30-930	Matte Grey White
30-888	Gloss Ultramarine Blue	30-940	Matte Light Grey
30-914	Gloss Beige	30-9650	Matte Dark Grey
30-92	Gloss Brown		
30-93	Gloss Grey White		
30-94	Gloss Light Grey		
30-955	Gloss Silver Grey		

## 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)	md >18 N/mm <sup>2</sup> cd >18 N/mm <sup>2</sup>
Gloss and matte version	
Thickness (film only)	0.070 mm ± 10%
Thickness of film and adhesive (ISO 4593)	0.100 mm ± 10%
Gloss (Gloss 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 colour	Clear
Liner SC 30	120g/m <sup>2</sup> 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.

*\*For applications nearing the minimum temperature range, please contact your local technical service representative to confirm suitability of application*

## 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 below. 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
<b>Black/white</b>			
Durability*	5 years	3 years	2 years
3M <sup>TM</sup> MCS <sup>TM</sup> Warranty	3 years	2 years	1 year
<b>Colours</b>			
Durability*	4 years	2 years	1 year
3M <sup>TM</sup> MCS <sup>TM</sup> Warranty	2 years	1 year	6 mths
<b>Metallics (gloss only)</b>			
Durability*	2 years	1 year	6 mths
3M <sup>TM</sup> MCS <sup>TM</sup> Warranty	1 year	6 mths	3 mths
<b>SC 30 Printed with ink series 1900 and 9700</b>			
3M <sup>TM</sup> MCS <sup>TM</sup> Warranty	2 years	1 years	6 mths

**Note:** The mentioned durability is based on regional average exposure conditions. However actual performance may vary depending for example on substrate preparation, exposure conditions and maintenance of the marking. 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 less than 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	SCPM-19
Printed		
Series 1900 inks	SCPS-100	SCPM-19
Series 9700 inks	SCPS-2	SCPS-100

## Application

Refer to the Instruction Bulletin 5.5 for application details. Wet application is not recommended.

## Maintenance and Cleaning

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

Refer to the Instruction Bulletin 6.5 for maintenance and cleaning details.

## Removal

3M™ Scotchcal™ General Purpose Film Series 30 is warranted to be removable with little adhesive residue for the warranty period using no heat for the removal process. For best removal performance, it is recommended to remove the film at an angle of 90° from the substrate in one continuous motion.

## 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)

## 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 on 01344 858000.

## Important Notice to Purchaser

The 3M products described in this publication are covered by a 3M warranty and limitation of liability.

3M's warranty provides that if 3M finds that goods are defective in material or workmanship they will be replaced or the price refunded at 3M's option but note that 3M does not accept liability for other direct losses (except for personal injury or death) or consequential losses relating to defective products or from information supplied by 3M.

Purchasers and users of 3M products, and not 3M supplying companies, are always solely responsible for deciding on the suitability of the 3M product for their required or intended use.

## Technical Assistance

For help on specific questions relating to 3M Commercial Graphics Division Products, contact your local Technical Service Representative.

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