

3M™ Blackout Film FUS1007Q

Technical Data Sheet

3M™ Blackout Film FUS1007Q is a high performance Blackout Film intended for application to a wide range of interior and exterior surfaces, such as window frames, window sashes, window extensions, body and door pillars, dashboard components and metal or plastic lids.

This film has a low gloss appearance. It is highly conformable and scratch resistant and has excellent weathering performance.

The air-bleedable feature of the adhesive layer has been designed for air bubble-free application of the Blackout Film while still providing strong, reliable adhesion under extreme conditions of environmental stress such as climatic change and humidity cycling.

Features

3M Blackout Film FUS1007Q features include:

- An effective design tool for brand differentiation and visual impact that meets OEM specifications
- Elimination of paint processes and related steps
- Helps reduce production costs by supplying die-cut, premasked parts and simple dispensing tools
- Potential reduction of long-term warranty and repair expense

Applications



Door Pillars and Window Sashes



B-Pillar

Physical Properties

Characteristics	Results	Test Method
Nominal thickness (film + adhesive)	127 µm (5.0 mils)	3M DCC654
Tensile Strength	20.6 MPa	3M Internal
Elongation	242%	3M DCC654

Product Construction

Application Tape (optional)
 Black Film Layer
 Adhesive Layer
 Poly-coated Layer



Product Characteristics

Characteristics	Results
Surface	30 gloss (nominal)
Color	Low gloss black
Film	PVC
Adhesive	Pressure sensitive modified acrylic with adequate initial adhesion and strong final adhesion to a wide variety of automotive surfaces providing reliability in all types of environmental conditions.
Liner	Poly-coated paper liner for easy film release and perfect cut edges

Performance Properties

Performance tests are run using standard test procedures in 3M laboratories. These values presented are typical and not to be used for specification purposes.

180° Peel Adhesion (Standard Paint)

	Results	Test Method
30 min @ SLC (Standard Lab Conditions)	677 N/m	3M DCC654
48hrs @ SLC	852 N/m	3M DCC654
168hrs @ 80C	1596 N/m	3M DCC654
168hrs @ 38C, 98% Humidity	1263 N/m	3M DCC654
Thermal Cycling	1236 N/m	3M DCC654

Weathering Exposure

	Results	Test Method
Xenon Accelerated 2640Kj (SAE J19600)	Pass	3M DCC654
Outdoor <ul style="list-style-type: none"> • Arizona 45° 12 & 24 months • Florida 5° 12 & 24 months 	Pass	3M DCC654

Performance Properties (continued)

Surface Appearance

	Results	Test Method
168 hrs @ 80°C	Pass	3M DCC654
168 hrs @ 38°C, 98% Humidity	Pass	3M DCC654
Thermal Cycling	Pass	3M DCC654
Salt Spray 168 hrs	Pass	3M DCC654
Fuel Immersion Resistance (5 min submerged followed by 5 min @ SLC, 3 cycles)	Pass	3M DCC654
Solvent Resistance (25 rub cycles) <ul style="list-style-type: none">• Window washer fluid• Antifreeze• SA E20 oil• #2 Diesel fuel	Pass	3M DCC654
High Pressure Wash (1,000 PSI)	Pass	3M Internal
Acid Resistance (three drops 1% HCL, 30 min)	Pass	3M DCC654

Shelf Life

Six months from date of receipt by customer when stored in original packaging at 22 ± 4°C and at a maximum moisture of 60% RH

Regulatory Information

Please refer to the product label and Safety Data Sheet (SDS) for health and safety information before using. Observe proper handling precautions as outlined in the SDS, which is available on request or at www.3M.com/msds. To obtain published IMDS ID numbers, email requests to 3M-IMDSrequest@mmm.com.

Contact Information

The information provided in this technical document is intended as a guide for these products. For more information or help in selecting a 3M product for an application, please contact your 3M technical service representative or call 1-800-328-1684.

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