

# 3M Science. Applied to Life.™ 3M™ Blackout Film FUS1007

## Technical Data Sheet



3M™ Blackout Film FUS1007 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.

3M Blackout Film FUS1007 features, advantages and benefits include:

- Effective design tool for brand differentiation and visual impact
- Reduction of time requirements and expense of certain paint processes and related steps
- Potential for reduction in production costs due to die-cut, pre-masked parts and simple dispensing tools
- Appearance that meets stringent automotive OEM design specifications

### Applications



Door Pillars and Window Sashes



B-Pillar

### Product Construction

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



### 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	215%	3M DCC654

**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, reliable final adhesion to a wide variety of automotive surfaces in all types of environmental conditions
Liner	Poly-coated paper liner for easy film release and precision 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.

Test Description	Results	Test Method
<b>180° Peel Adhesion (Standard Paint)</b>		
30 minutes @ SLC (Standard Lab Conditions)	700 N/m	3M DCC654
48 hours @ SLC	800 N/m	3M DCC654
7 days @ 80°C	1400 N/m	3M DCC654
Thermal Cycling	1000 N/m	3M DCC654
<b>Environmental Simulations</b>		
Thermal Cycling – 5 cycles	Pass	3M DCC654
Salt Spray – 7 days	Pass	3M DCC654
<b>Fluid Resistance</b>		
Fuel Immersion Resistance (5 min submerged followed by 5 min @ SLC, 3 cycles)	Pass	3M DCC654
Solvent Resistance (25 rub cycles): Window washer fluid, Antifreeze, SAE20 oil, 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
<b>Weathering Exposure</b>		
Xenon Accelerated 2640KJ (SAE J2527)	Pass	3M DCC654
Natural Weathering (Florida and Arizona) – 24 months	Pass	3M DCC654

**Application Conditions**

Recommended temperature range of 24 ± 6°C for part, vehicle body, and ambient conditions. Heat or cool as needed to maintain required temperature range. Clean application area is required.

**Shelf Life**

One year 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 Article Information Sheet (AIS) for health and safety information before using.

## 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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