

**3M** Science.  
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**3M™ Blackout Film FPU3001J**

Technical Data Sheet



3M™ Blackout Film FPU3001J 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 lids. The film has a medium to high 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 FPU3001J features, advantages, and benefits include:

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

**Applications**

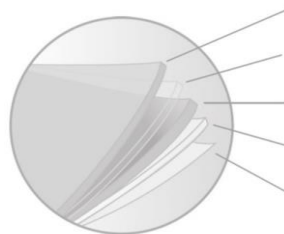


Door Pillars and Window Sashes



Pillars

**Product Construction**



- Premask (Optional)
- Clearcoat/Carrier
- Polyurethane Film (150 μ)
- Acrylic Pressure Sensitive Adhesive (45 μ)
- Release Liner

**Physical Properties**

Characteristics	Results	Test Method
Nominal thickness (film +adhesive)	195 μ (7.7 mils)	3M DCC654
Tensile Strength	>78.4 N/25mm	3798-2-2
Elongation	>100%	3798-2-1

**Product Characteristics**

Characteristics	Results
Color	Medium to high gloss black
Film	Polyurethane
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>Adhesion</b>		
Initial: 1 hour at SLC (Standard Lab Conditions)	15.8 N/25 mm	3798-2-3-1
Normal: 48 hours at SLC	20.3 N/25 mm	3798-2-3-2
Heat Resistance: 96 hours at 80°C	26.7 N/25 mm	3798-2-3-3
Humidity Resistance: 120 hours at 50°C, 95% RH	26.6 N/25 mm	3798-2-3-4
Heat Cycle Resistance: 5 cycles	34.3 N/25 mm	3798-2-3-5
<b>Durability</b>		
Heat Resistance: 168 hours at 80°C	Pass	3798-2-4-1
Humidity Resistance: 120 hours at 50°C, 95% RH	Pass	3798-2-4-2
Heat Cycle Resistance	Pass	3798-2-4-3
<b>Solvent Resistance</b>		
Gasoline	Pass	3798-2-5-1
<b>Weathering Exposure</b>		
Sunshine Weather-O-Meter: 2000 hours	Pass	3798-2-6-1
Outdoor Exposure: 1 year, South, 45°C	Pass	3798-2-6-2

**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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