

**3M** Science.  
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**3M™ Blackout Film FTA9055J**

Technical Data Sheet



3M™ Blackout Film FTA9055J 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 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 FTA9055J 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



Pillars

**Product Construction**

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



**Physical Properties**

Characteristics	Results	Test Method
Nominal thickness (film +adhesive)	157 µm (6.2 mils)	3M DCC654
Tensile Strength	2200 N/m2	3M Internal
Elongation	89%	3M DCC654

**Product Characteristics**

Characteristics	Results
Surface	90 gloss (nominal)
Color	High gloss black
Film	PVC

## Product Characteristics (continued)

Characteristics	Results
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 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 (Aluminum)</b>		
Initial - 1 hr at SLC (Std Lab Conditions)	7.5 N/cm	3M DC C654
Room Temperature - 168 hrs at SLC	9.2 N/cm	3M DC C654
Heat Resistance - 400 hrs at 80 °C	10.4 N/cm	3M DC C654
Water Soak Resistance – 400 hrs @ 40°C	15.2 N/cm	3M DC C654
<b>Environmental Simulations</b>		
Heat Resistance – 168 hrs @ 80°C	Pass	3M ADSD 3798-4
Moisture Resistance – 168 hrs @ 50°C/ 95% RH	Pass	3M ADSD 3798-4
Thermal Cycle – 5 cycles	Pass	3M ADSD 3798-4
<b>Solvent Resistance</b>		
Windshield Washer Solvent – Immerse 30 minutes @ 20°C	Pass	3M ADSD 3798-4
Gasoline Fuel – Immerse 30 minutes @ 20°C	Pass	3M ADSD 3798-4
<b>Weathering Exposure</b>		
SWOM – 2,000 hours	Pass	3M ADSD 3798-4
Outdoor Deck – Fuji, 45° South facing, 24 months	Pass	3M ADSD 3798-4

## 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 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



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help in selecting a 3M product for an application, please contact your 3M technical service representative or call 1-800-328-1684.

