

# 3M™ Body Contrast Film FPR1J-BLK3A

## Technical Data Sheet



3M™ Body Contrast Film FPR1J-BLK3A is a high performance film intended for application to a wide range of exterior surfaces, such as roof, hood, window frames, window sashes, window extensions, body and door pillars.

The film has black appearance with a textured surface. It has excellent weathering performance.

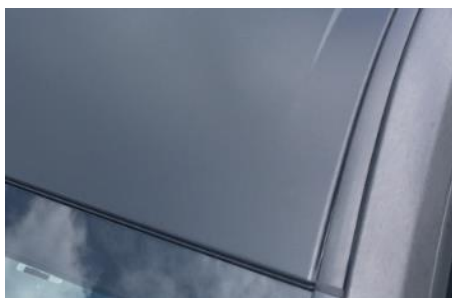
The air-bleedable feature of the adhesive layer has been designed for air bubble free application of the film while still providing strong, reliable adhesion under extreme conditions of environmental stress such as climatic change and humidity cycling.

### Features

3M Body Contrast Film FPR1J-BLK3A 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, pre-masked parts and simple dispensing tools.

### Applications



Roof



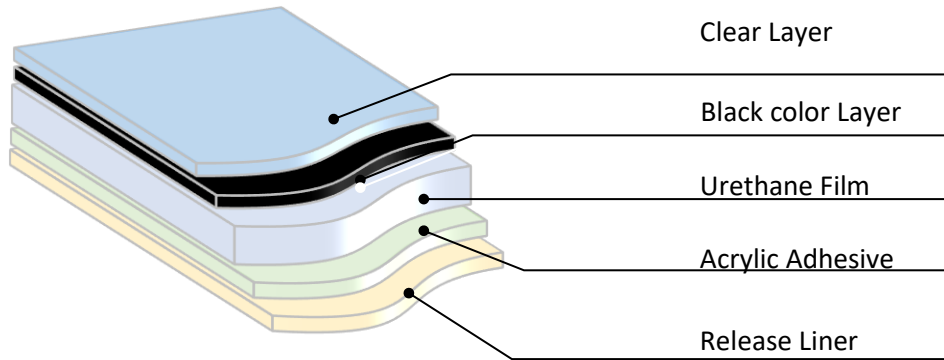
Hood

### Physical Properties

Characteristics	Results
Nominal thickness	243 µm

## Product Construction

Product Construction :



## Product Characteristics

Characteristics	Results
Surface	Random texture
Color	Black
Film	Urethane
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 Properties:

Performance tests are run using ADSD 3798-4 specification test procedures. The values presented are typical and should not be used for specification purposes.

Performance Test and Condition	Results of Utility	
	Grade Blackout Films	
<b>Peel Adhesion</b>		
Initial state — 1 hr @ 23°C N/25mm	22.4	
Room temperature — 168 hrs @ 23°C N/25mm	31.3	
Heat resistance — 400 hrs @ 80°C N/25mm	36.1	
Moisture resistance — 168 hrs @ 50°C, 95% RH N/25mm	43.8	
<b>Environmental Simulation</b>		
Heat resistance — 168 hrs @80°C	Pass	
Moisture resistance — 168 hrs @ 50°C, 95% RH	Pass	
Thermal cycle — 5 cycles	Pass	

### Solvent resistance

Windshield washer solvent — Immerse at 30 min @ 20°C	Pass
Gasoline fuel — Immerse at 30 min @ 20°C	Pass
	or recovery after 24 hrs in room temperature

### Weathering

SWOM — 2000 hrs	Pass
Outdoor Deck — Fuji, 45° South facing 24 months	Pass

### Shelf Life

2 years from production date when stored in original packaging at  $22 \pm 4^\circ\text{C}$  and at a maximum moisture of 60% RH