



# BETAFOAM™ AFI

## NVH Cavity sealing part solution

### Description

BETAFOAM\* AFI is a body shop part used to make a high expansion non-urethane foam. The part is engineered to produce a foam for providing barrier protection against airborne noise. The foam is produced by the exposing the part to e-coat oven temperatures during the automotive paint bake process. This technology was formulated and engineered to enable effective e-coat drainage around the part while enabling minimal impact on cavity heat-up rate. The resulting 3-dimensional fill provided by the foam robustly seals vehicle cavities and small seams.

### Typical Applications

BETAFOAM AFI is used to produce foam for blocking automotive body cavities that convey airborne noise into the passenger compartment.

### Application Technique

BETAFOAM AFI is fixed inside of a vehicle cavity utilizing a reliable attachment clip. Upon being exposed to the e-coat oven, the part expands, resulting in a low density foam.

### Safety Precautions

Keep away from heat, sparks, and open flames. Refer to Material Safety Data Sheet for details.

### Packaging

BETAFOAM AFI is supplied in boxes or returnable totes.

### Storage

BETAFOAM AFI must be stored temperatures below 95°F.

### Storage Stability

Shelf life is dependent upon storage temperature of the material. Shelf stability is assured for 180 days from the date of shipment when stored according to the above storage requirements.

### Cured Physical Properties

Maximum Volume Expansion, %	3000%
Minimum Volume Expansion, %	2400%

### Uncured Physical Properties

Composition	Plastic non-urethane technology
Appearance	Yellow solid
Flash Point, °F (°C)	>230 (110)
Weight per Volume (g/cc)	1.06

### Performance Properties

Water Absorption, % Weight (Submerged four hours)	<6% (Pass)
Water Absorption, % Volume	<0.2% (Pass)
Flammability	
ISO 3795 / SAEJ 369	PASS
Samples conditioned at	
21± 2°C & 50% ± 5°C RH	24 h
Solid Content (GM9010P), %	>99%
24 hours @ 105C	Pass
Adhesion to wet ELPO GM9984188	
- Initial	Pass
- Humidity	Pass
- Cold Slam	Pass
Processing window expansion (GM9037P)	
- 6 minutes 150C + 14 minute ramp	
- 157C for 25 minutes	
- 205C for 40 minutes	
Bridging (WSS-M18P11-B)	<0.5 mm
	Pass
Horizontal Expansion (GM 9984188)	>25 mm
	Pass
Ramp Expansion (GM 9984188)	>18 mm
	Pass

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### HEADQUARTERS

Dow Automotive  
1250 Harmon Road  
Auburn Hills, MI 48326  
(248) 391-6300

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