

BETAFOAM SFI

STRUCTURAL FOAM INSERT

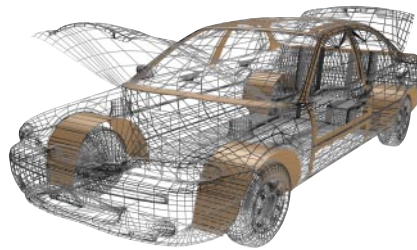


BETAFOAM SFI Provides Structural and Acoustical Benefits

Dow Automotive is a global supplier of NVH and safety solutions for body-in-white (BIW), interior and exterior applications. Our material science and characterization expertise, combined with design engineering, processing knowledge and program management, enable us to provide OEM and Tier customers with solutions that meet or exceed vehicle performance targets at lower weight and cost.

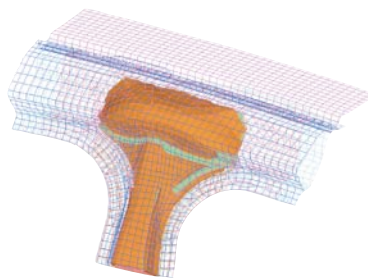
BETAFOAM* SFI from Dow Automotive is just one of a number of solutions that positively impacts vehicle structural safety, stiffness and acoustical performance.

This new integrated part offering leverages Dow Automotive expertise in bulk foam materials and advanced thermoplastics. BETAFOAM SFI offers acoustical performance advantages and structural characteristics similar to high-density bulk foam materials. Although equally effective, SFI has been developed to give customers a choice between parts or a bulk foam system. BETAFOAM SFI can be fabricated to fit in any body cavity and consists of a pre-cured foam core and heat-activated epoxy. The parts also can be produced with an additional molded shell for added strength and stiffness.



Applications

Cowl bars
A pillars
B pillars/roof joints
C pillars
Rockers
Wheel wells
Frame rails/longitudinal structure



BETAFOAM SFI can be used in most areas of the vehicle where bulk foam systems are applied.

Product advantages and ROI

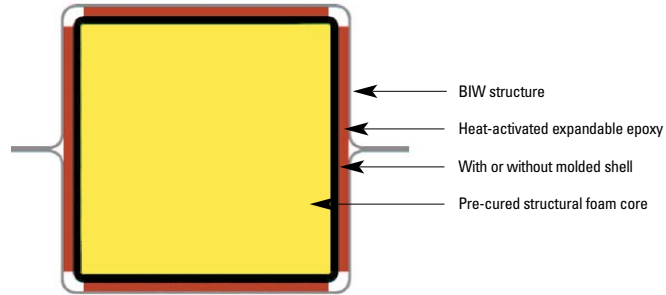
- ▶ Ease of installation—can be clipped into place with standard fasteners in body or fab shop
- ▶ Tunable performance, geometric flexibility
- ▶ Variable material grades
- ▶ Same performance in smaller pillar cross-sections
- ▶ Part weight reduction potential
- ▶ Cost savings vs. competitive inserts
- ▶ Adds structural and crash performance enhancements
- ▶ Provides cost and mass-efficient solution compared to traditional approaches
- ▶ Potential to downgauge and/or eliminate BIW content

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B-pillar BETAFOAM SFI



Case study

Data including the following show structural foam insert increase joint stiffness significantly.

Experimental measurements	% improvement in joint stiffness
Empty joint	100
SFI foam-epoxy part	217.6
Target	171.4

Full-service support from a single-source supplier

In addition to the largest selection of material solutions, Dow Automotive offers assistance with design, testing and validation to ensure customers of optimized application performance. Specific services include:

- ▶ Design engineering services including predictive modeling within the vehicle development process, and total CAE capabilities with prototype support in all phases
- ▶ The full range of material, component-level and full-vehicle testing and validation provided from Auburn Hills technical lab facility

We listen. We deliver.



Dow Automotive

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Rocker BETAFOAM SFI

Contact your customer service representative, or visit dowautomotive.com for more information. For technical information select "Downloads" on home page and "Technical Data Sheets" on the next page.