

BETAFOAM™ Renue Polyurethane Foam

BETAFOAM™ Renue polyurethane foam from Dow provides auto makers with a sustainable cavity-sealing technology that contributes to improved fuel economy with a ~ 25% reduction in density. It also delivers better acoustical performance than traditional expandable baffles for body-in-white applications.



□ Typical BETAFOAM™ Renue applications.

Made with 30% renewable-based material, BETAFOAM™ Renue provides improved acoustical performance of one to five decibels at the driver's ear, and minimizes resonance buildup while sealing vehicle cavities. The lightweight foam creates a potential mass savings of up to 30% versus previous generations of BETAFOAM™.

Product and Platform Advantages BETAFOAM™ Renue:

- Demonstrates high-performance body-cavity sealing capable of 4700% expansion
- Provides excellent sound absorption by reducing noise with 3-dimensional sealing
- Meets industry standard for low MDI emissions thus enhancing worker safety
- Relieves ventilation requirements for ease of use in assembly plant environments
- Provides complete design flexibility by filling any cavity shape and contour
- Resists water absorption

This effective and sustainable NVH solution also offers higher-performance physical properties in addition to renewable content. BETAFOAM™ Renue features the following improvements over traditional BETAFOAM:

- Faster reaction time (measured at end of rise) that maintains production rate or cycle time during transition to the new technology
- A processing window extended by 10°C (from 150 - 190°C) for excellent foam quality
- 25% lower density (1.4 vs. 2.0 lb/cubic foot), with no reduction in acoustic performance



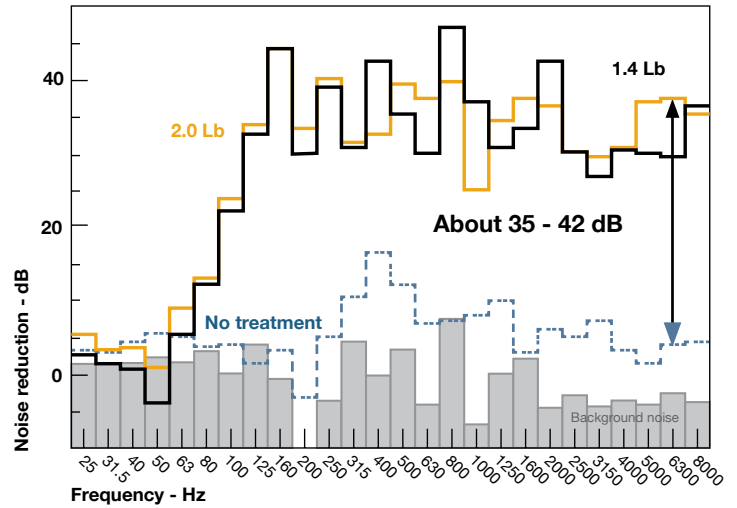
BETAFOAM™ Renue fills cavity space in a pillar application.



The complex channels in a body cavity are completely sealed by BETAFOAM™ Renue injected as a liquid to react and fill the intricate space.

The chart to the right shows noise reduction as a function of frequency with traditional BETAFOAM™ and BETAFOAM™ Reneu injected into a typical rocker panel.

As a technology and market leader in the polyurethane (PU) sector, Dow possesses the capabilities that empower us to offer best-in-class low-emission formulas, renewable content and ease of processability. Technical expertise helps us predict and deliver high-quality solutions.



The yellow line indicates noise reduction with traditional BETAFOAM™ (2.0 pcf). The black line shows noise reduction with BETAFOAM™ Reneu (1.4 pcf), and the blue dotted line shows noise reduction with no NVH treatment.

About Dow

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Form No. 299-52326-01-0821 S2D