

# VB2 / VB2HD

## Vinyl Vibration Damping Material

VB2 and VB2HD are high performance, lightweight, moldable vibration damping sheet materials that have been engineered to convert vibration energy into low level heat through viscous friction. VB2 and VB2HD materials feature a silica-mica and ceramic mineral load that aids in the conversion of mechanical energy into thermal energy. These products offer a significantly higher damping performance than asphalt based materials. VB2 and VB2HD are highly moldable and feature an aggressive, modified acrylic adhesive which allows for 100% adhesion to a vibrating structure.

Automotive body panels are constructed of sheetmetal, fiberglass or plastic and vibrate at various frequencies. If they vibrate at a high rate, noise can be heard throughout the passenger compartment and contribute to driver fatigue. This type of noise can also negatively affect the performance of an auto sound system.

The installation of VB2 or VB2HD will assist in reducing interior noise levels as well as improve performance of auto sound systems by preventing the conversion of sound energy into vibration energy.

**VB2 and VB2HD are typically used to damp highly irregular surfaces and are ideal when replacing flimsy plastic vapor barriers that exist behind door panels.**

### Benefits:

- Lightweight, high performance design
- Highly moldable
- Greatly reduces structural fatigue and associated failures
- Reduced installation time simply cut, peel and stick
- No unpleasant odors
- Alternative to OEM specified vibration damping materials
- Paintable

### Applications:

- Automotive body panels
- Industrial / Machine
- Marine: Hull and bulkhead
- Commercial / residential HVAC ducting and metal plenums
- High end audio gear and computer cases or housings

### Material Specifications: VB2 / VB2HD

**Thickness:** 0.042" / 0.075"

**Weight:** 0.29 lbs. ft<sup>2</sup> / 0.43 lbs. ft<sup>2</sup>

**Dimension:** 37" x 54" (14ft<sup>2</sup>)

**Color:** Black

**Chemical Type:** Mineral filled viscoelastic polymer

**Density:** 100 lbs. ft<sup>3</sup>

**Tensile Strength - lbs./ft:** 400

**Service Temp Range:** -40°F to +250°F

**Odor:** None

**Flame Resistance:** Meets UL Component classification 94 (VO, HF1), FAR25.853B Vertical Flame Test, MVSS-302, ASTM-E84 Class A

**Elongation (%):** 25 per ASTM D638

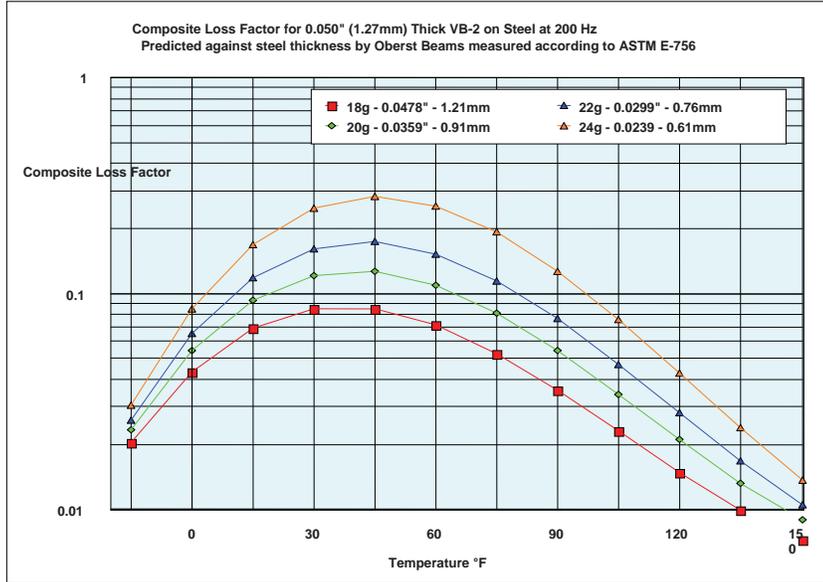
**Flexural Modulus (PSI):** 17,000 per ASTM D747



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vibration damping



### Contact Information:

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