



CASCADE AUDIO ENGINEERING

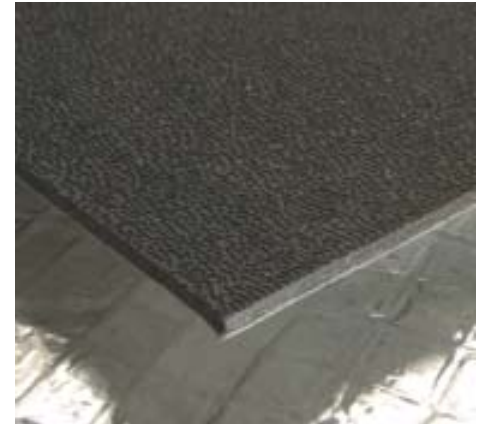
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# VBLOK VB-2 / VB-2HD

Category: Vibration Damper

## Technical Data Sheet

**VB-2** and **VB-2HD** are high-performance, lightweight, vibration damping sheets that have been engineered to convert vibration energy into low level heat through viscous friction. **VB-2** and **VB-2HD** vinyl damping materials feature a silica-mica and ceramic mineral load. These products offer significantly higher damping performance than asphalt based materials. **VB-2** and **VB-2HD** are highly moldable and feature an aggressive acrylic adhesive which allows for 100% adhesion to a vibrating structure.



Automotive body panels constructed of sheetmetal, fiberglass or plastic 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. **VB-2** and **VB-2HD** will reduce vibration of the body panels by increasing their "mass" and converting the vibration energy (mechanical) into thermal energy. The installation of **VB-2** and **VB-2HD** will assist in reducing interior noise levels as well as improving performance from auto sound systems by preventing the conversion of sound energy into vibration energy. **VB-2** and **VB-2HD** may also be used to create or replace flimsy plastic or paper vapor barriers behind interior panels.

**VB-2** and **VB-2HD** are important members of a specialized family of high performance damping products engineered to work together. Consulting with a Cascade Audio Engineering specialist will allow you to select and combine these products to transform your personal space into the ultimate environment.

### Benefits:

#### VB-2

- Lightweight, moldable, high performance design
- Aggressive adhesive withstands temperatures in excess of 250 degrees
- Stretches up to 40% for 100% bonding to irregular surfaces
- Greatly reduces structural fatigue and associated failures
- Reduced installation time; simply peel and stick
- No unpleasant odors
- Paintable

#### VB-2HD (Heavy Duty)

- Lightweight, moldable, high performance design
- Aggressive adhesive withstands temperatures in excess of 250 degrees
- Stretches up to 50% for 100% bonding to highly irregular surfaces
- Reduces structural fatigue and associated failures
- Reduced installation time; simply peel and stick
- No unpleasant odors
- Paintable

### Applications:

- Automotive body panels
- Marine: hull, bulkhead
- Sheetmetal chutes, hoppers and ducting.
- Air compressors and machine tools.
- Audio transports and mechanisms

### Properties:

#### VB-2   VB-2HD

Size (inches).....	Std- 37" x 54"	Same
	Mini- 12" x 54"	
Chemical type.....	Mineral Filled Visco-Elastic Polymer	Same
Color.....	Black	Same
Thickness (inches).....	0.042"	0.075"
Weight- lbs/ft.....	0.29 lbs.	0.43 lbs.
Density.....	100 lbs./cu.ft.	Same
Tensile strength- lbs/ft.....	400	Same
Service temp. range.....	-40 to +250 deg. F.	Same
Odor.....	None	Same
Flame resistance.....	Meets UL Component classification 94(VO,HFI) FAR25.853B Vertical Flame Test and MVSS-302	Same
Elongation (%).....	25 per ASTM D638	Same
Flexural Modulus (PSI):	17,000 per ASTM D747	Same

Product must be used within one year for best performance - Installation Instructions Available at [www.cascadeaudio.com](http://www.cascadeaudio.com)  
Cascade Audio Engineering - PH: 541-389-6821 - FX: 541-389-5273 - [sales@cascadeaudio.com](mailto:sales@cascadeaudio.com) - [www.cascadeaudio.com](http://www.cascadeaudio.com)