



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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We Identify and **S.T.O.P.** Your Noise Problems

TECHNICAL DATA SHEET

VBLOK VB-2

CATEGORY: VIBRATION DAMPER



VB-2 is a high-performance, lightweight, vibration damping sheet that has been engineered to convert vibration energy into low level heat through viscous friction. VB-2 vinyl damping materials feature a silica-mica and ceramic mineral load. This product offers significantly higher damping performance than asphalt based materials. VB-2 is highly moldable and features an aggressive acrylic adhesive which allows for 100% adhesion to a vibrating structure.

Automotive body panels constructed of sheet metal, 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 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 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 may also be used to create or replace flimsy plastic or paper vapor barriers behind interior panels.

VB-2 is a important member of a specialized family of high performance damping products engineered to work together. Consulting with a Acoustical Surfaces Specialist will allow you to select and combine these products to transform your personal space into the ultimate environment.

Product must be used within one year for best performance.

Applications:

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

Benefits:

- ✓ 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

Properties VB-2:

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