

VibroMat® Noise / Vibration Reduction & Sealant



Wolverine Plastics, Inc – A Molding, Extrusion and Water Filtration Company

VibroMat® is a family of pressure sensitive, constrained layer damping products in sheet form, designed to absorb structural borne sound and vibration, seal seams and cracks, and manage heat.

VibroMat® technology uses mass loading to lower panel resonance and absorb structural vibrations via conversion into low level heat. Just peel the release paper, trim to desired shape if required, and stick to any metal or non-metal substrate.

VibroMat® applications are endless. Here are a few examples –

- automotive (body panels, wheel housings, doors, trunks)
- appliances (dishwashers)
- business machines (computer CPU towers)
- electronic enclosures (video game stations)
- audio speaker systems (vehicle, home systems)
- HVAC (ductwork, AC units)
- marine (engine compartments)
- pipe lines (corrosion prevention)

VibroMat® comes in sheet form, packaged in corrugated cartons. Parts can be square, rectangle or custom shaped.

VibroMat® is produced in the USA and sold direct from the manufacturer.

VibroMat® Specifications

Construction: sandwich composite consisting of an aluminum constraining foil cover layer, a non-toxic, viscoelastic (butyl rubber) damping core layer, backed with a coated release paper for easy peel removal and application.

Shelf Life: 1 year, when stored between 40° F and 100° F (4° C to 38° C)

Installation Conditions: 32° to 100° F (0° C to 37° C) on clean, dry surfaces.

Service Temperature Range: -40° F to 250° F (-40° C to 120° C)

Tools Required: wire brush, broom or cloth, scissors or knife, roller

Dimensions :

- Squares or rectangles –
 - Standard widths: 10, 12, 18 and 24 inches
 - Length: from 10 to 120 inches (10 feet)

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VibroMat® Products

VibroMat® Part No.	Composite Loss Factor (μ)	Mass (lb/sq ft)	Peel Strength (N/cm)	Cover Layer
893S	0.363	0.46	1.8	3 mil silver aluminum
893B	0.363	0.46	1.8	3 mil black aluminum
894S	0.370	0.48	2.1	4 mil silver aluminum
895S	0.410	0.60	3.4	5 mil silver aluminum
892M	n/a	0.42	1.8	2 mil Mylar (clear)

Mass: values shown are typical but can be adjusted according to customer requirements. Ranges from 0.35 lb/sq ft and .60 lb/sq ft can be achieved.

Acoustics: Composite Loss Factors (CLF) are measured per SAE J 1637 Vibration Damping Test @ 200 Hz and 25° C. CLF's from -10° C to 40° C available upon request.

Peel Adhesion Strength:

- **Honda** damper spec S9V - minimum initial peel strength of 1.5 kg (14.7N)/25mm,
- **Ford** damper spec WSS-M5G58-A2 - minimum peel adhesion of 15.0 N/cm
- **Toyota** engineering standard TSK7702G, damping material, class 4 - minimum shear strength of 60 kPa, or sheet rupture

Packaging:

Sheet Dimensions (W x L)	Sheets / carton	Sq Ft / carton	Cartons / pallet	Sq Ft / Pallet
18" x 32"	20	80	16	1,280
12" x 23"	50	96	36	3,456
24" x 48"	9	7	24	1,728