



HUSHMAT ULTRA

FEATURES & BENEFITS:

- No surface pre-treatment, cleaning, or heat required during installation. Won't fall off in the cold and no annoying odor. Superior Adhesion Performance – We Guarantee It!
- 18 years experience providing damping materials to major international industrial accounts. Better product means better performance.
- 20% More density per square foot means Damping and Thermal Insulation properties than competitive brands
- Cuts easily with scissors or utility knife.

Easier Installation + Better performance = **GREAT VALUE!**

PRODUCT DETAILS:

HUSH MAT ULTRA is a pressure-sensitive, constrained-layer damper, which has excellent adhesion to many difficult to bond substrates such as oily cold rolled steel, automotive E-coat, primers and finishes, and many plastics including polypropylene. The aluminum foil constraining layer and specially formulated viscoelastic polymer layer combine to give effective vibration damping over a wide temperature range. Ultra is provided in rectangular or square sheets and can be hand-cut for special configurations.

HUSH MAT ULTRA is temperature resistant and will maintain adhesion through all automotive bake cycles including 200 °C (400 degrees F) overbake conditions. This allows its application at any stage of the production cycle. It can be applied to both pre-painted and top-coated metal surfaces. It is compatible with automotive coatings and will not contaminate spray operations. **HUSH MAT ULTRA** superior adhesion characteristics provide excellent corrosion resistance.

The superior adhesive properties of **HUSH MAT ULTRA** allow it to be used in horizontal, vertical or inverted applications. It has good conformability and can be applied on complex shapes.

HUSH MAT ULTRA is approved for many automotive specifications. Contact your Hushmat representative for details, and for design and custom application assistance.

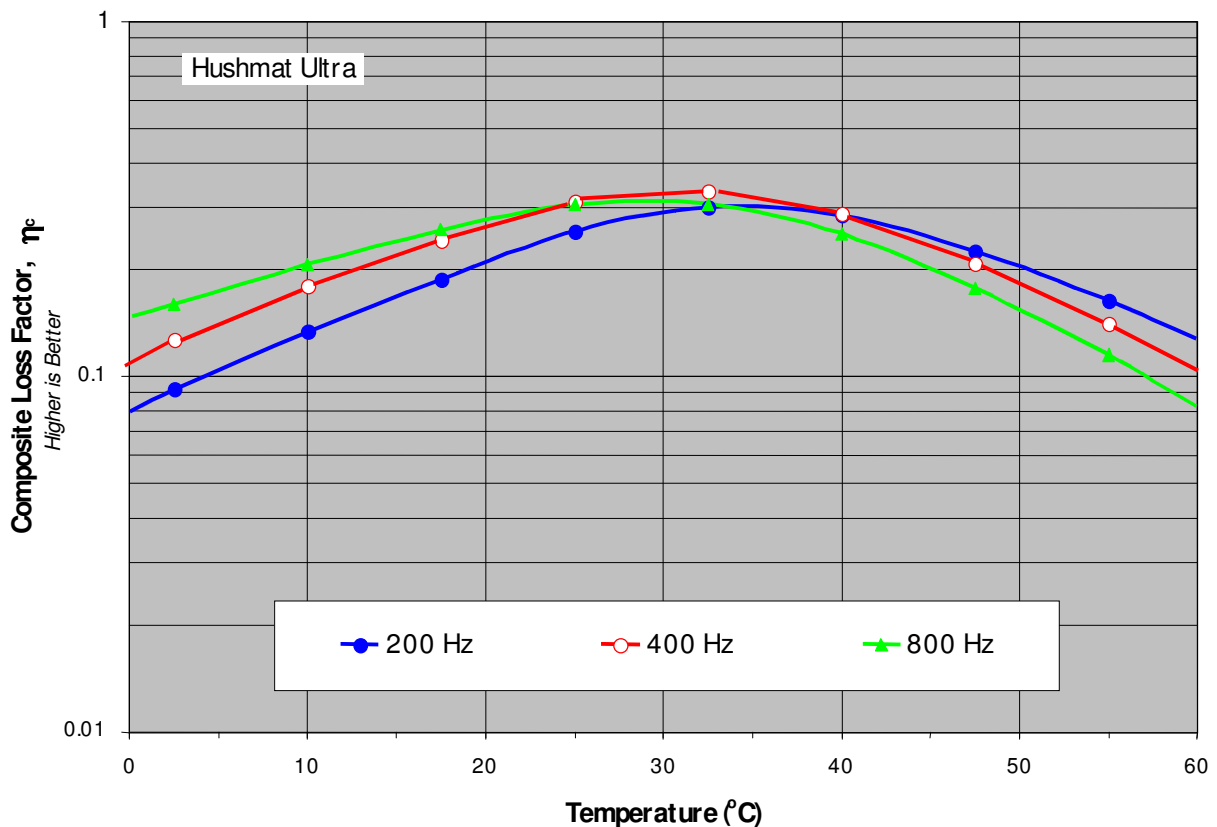
TYPICAL PROPERTIES:

- COLOR:** Polymer - Black
Backing – Aluminum Silver or Black
- SPECIFIC GRAVITY:** 1.53 (approx. 0.53 pounds per square foot)
- THICKNESS:** 1.5mm (approx 1/8")
- HARDNESS:** 6.5 - 9.0mm. ASTM D-5
- SHELF LIFE:** At least 6 months when stored at 40°C or less
- DAMPING PROPERTIES:** Damping is tested per SAE J1637 (Oberst) and is reported as Composite Loss Factor (η_c) interpolated to 200 Hz, 400Hz and 800Hz. Typical performance for **HUSH MAT ULTRA** is represented on the next page. Test data on other types of bars are available. Please consult your HushMat representative.

VIBRATION DAMPING PROPERTIES per SAE J1637

(SAE Bar: 200 mm free length, 12.7 mm wide, 0.8 mm thick)

North American Automotive Industry Specified Test Method



TEMPERATURE RESISTANCE: **HUSH MAT ULTRA** will withstand a bake of 1 hour at 200°C with no deformation, sag, or flow when baked in horizontal, vertical or inverted positions.

COLD FLEXIBILITY: Can be bent around 25mm. mandrel at -30°C with no cracking or loss of adhesion.

FLAMMABILITY: Tested per FMVSS 302, **HUSH MAT ULTRA** is self-extinguishing and meets all aspects of the standard.

SAFETY: **HUSH MAT ULTRA** is not considered a hazardous material. Care should be used in handling to avoid cuts from the foil. Gloves are recommended. The Material Safety Data Sheet is available upon request and should be read and understood before using this product.

PEEL STRENGTH: Tested in 90° peel at a crosshead speed of 300mm per minute on a 25mm wide test specimen. Average load in Newtons is reported.

Tested on 20% talc-filled polypropylene after 2 hour dwell: 50 N/25mm.

PEEL STRENGTH (N per 25mm width)			
	OILY COLD ROLLED STEEL*	OILY GALVANIZED STEEL*	E-COAT (ED-11)**
After 2 Hours	90	90	60
Heat Aged 2 Weeks at 70 Celsius	100	100	85
Salt Spray 2 Weeks	80	50	65
Humidity 2 Weeks at 100% and 38 Celsius	85	80	80
Environmental Cycle 5 Cycles of the following 17 Hours at -30 Celsius 72 Hours at 70 Celsius 24 Hours in Salt Spray 7 Hours at -30 Celsius 17 Hours in Salt Spray 7 Hours at 70 Celsius 24 Hours in Salt Spray	85	85	70
* Baked per automotive paint bake schedule - e-coat.			
** Unbaked			