



## GENERAL DESCRIPTION

Patented heat-expandable material for use as constrained layer damper (cld) or patch constrained layer (pcl) for vibrational noise management solution.

## PRODUCT HIGHLIGHTS

- Die-cut polymer sheet
- Attached to substrate via welding, stapling or adhesive
- Up to 250% volumetric expansion
- High damping rate
- Increases local stiffness
- Provides corrosion resistance to body panels

## MATERIAL PROPERTIES

APPEARANCE	Non-Specific Black/Brown			
SPECIFIC GRAVITY	1.3 – 1.4 (prior to Expansion)			
WEIGHT/AREA	Thickness	kg/m2	lb/ft2	
	1.0mm (0.040 in)	1.30 – 1.40	0.28	
	1.5mm (0.060 in)	1.95 – 2.10	0.42	
VOLUME EXPANSION	Range: 100%to 240%			
ADHESION PROPERTIES (Tested on Oiled Cold Roll Steel)	Initial	Salt Spray (250 Hrs)	Heat Aging (250 Hrs @175C)	100% Humidity (250 Hrs @38C)
	100% Cohesive	100% Cohesive (No Undercut Corrosion)	100% Cohesive	100% Cohesive (No Undercut Corrosion)

## APPLICATIONS

Typical automotive applications

- Wheelhouse
- Plenum
- Oil pan
- Dash panel
- Floor pan

## STANDARDS

Automotive Industry Standards passed by AcoustaDamp™:

- Ford WSS-M99P32-D1
- FCA MS-CD-640

<b>DAMPING PROPERTIES / LOSS FACTOR</b>	From 0.18 to 0.35 between 15C and 60C Oberst Test for Composite Loss ( c) per SAE J1637 0.8mm Base Beam / 0.6mm Top Beam / 2.5mm Bond Line (Linear extrapolated results @200Hz)
<b>DEFLECTION</b>	0.055 inch Cantilever Beam Test (Beam Length of 10.0" w/100g Weight @23C)
<b>ASSEMBLY</b>	Passes FMVSS 302
<b>CHEMICAL RESISTANCE NON EXHAUSTIVE LIST</b>	Salt solution, No. 1 Oil, brake fluid, sulfuric acid, coolant fluid, transmission fluid, washer solvent, power steering fluid.
<b>SHRINKAGE (BAKED MATERIAL)</b>	~ 0.70%
<b>FLOW (BAKED MATERIAL)</b>	No flow
<b>MOISTURE ADSORPTION</b>	< 1.5%