

NOISE CONTROL



SOUND INSULATION

## Quieter Car Without the Weight

- » Stop Vibrations and Resonance
- » Block Unwanted Road Noise
- » Minimize Buzzes and Rattles

## Improve Stereo Performance

- » Get Better Sound
- » Stop Speaker Distortion
- » Get More Bass

## Thinner and Lighter

THICKNESS  
3/64"



Dynamat SuperLite is for the vehicle owner who wants a quiet, solid ride, while keeping weight to a minimum. SuperLite can be used for full coverage on your vehicle's interior or just in problem areas of high sound resonance. The flexible, low-density synthetic core creates dynamic motion energy conversion to silence your vehicle interior. It is a thin, easy to install, super-sticky, space age plastic, bonded to an alloy skin that converts noise causing vibration into silent energy. Use it on doors, floor, roof, hood and trunk for a really quiet and incredibly solid ride.

### FOR USE THROUGHOUT YOUR VEHICLE



DOORS



TRUNK



ROOF



Discover the **Dynamat** difference.

### DYNAMAT SUPERLITE

**Tri-Pak 12sq.ft.** Part No. 10612  
3 shts 18" x 32" (1.1 sq. meters) ea.

**BULK PAK 48sq.ft.** Part No. 10648  
12 shts 18" x 32" (4.5 sq. meters) ea.

#### Installed Weight for Sub Compact

2 Doors	4 - 6 lbs
Floor	14 - 17 lbs
Roof	4 - 6 lbs
Trunk	6 - 10 lbs
<b>Total*</b>	<b>28-39 lbs</b>

**30%  
Lighter  
30%  
Thinner**



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## DESCRIPTION

Dynamat SuperLite is a patented, light-weight, elastomeric, butyl and aluminum constrained-layer vibrational damper. Dynamat SuperLite conforms and fuses easily to sheet metal and other hard substrates. Material performance is optimized for temperature ranges between -10° C to +60° C (14° F to +140° F). Material can withstand temperature extremes between -54° C to +149° C (-65° F to +300° F) and is highly resistant to aging.

## ACOUSTIC PROPERTIES

The acoustic loss factor “n” is used as a measure of ability to damp structure-borne sound. It states how much vibrational energy (in steel sheets for instance) is converted to heat rather than sound. For constructions containing several layers of damping material, the combined loss factor “n comb” is used. The theoretical maximum loss factor is 1 (no vibration). An undamped 1mm thick steel panel has a loss factor of roughly 0.001 at 200 Hz. Dynamat SuperLite applied to that panel would increase the loss factor to 0.234 @ +20° C (+68° F). Multiple layers of Dynamat SuperLite can be used to improve sound damping further.

## APPLICATIONS

Dynamat SuperLite can be die cut to shape and placed onto the body surface after sheet metal cleaning operation and prior to paint system (typically at the sealer application operation) or on painted panels. Dynamat SuperLite is used as treatment for metal panels, partitions, ducts, doors, bins, panels etc. in railroad cars, buses, automobiles and ships. It is also used for ventilation ducts, relay cabinets, steel furniture, home appliances, sink units, computer equipment, machine tools and for many other purposes.

## INSTALLATION

Dynamat SuperLite should be cut to the desired size before the release liner is removed. It may be cut with scissors, knife or die. Remove dust, grease, moisture, and other foreign matter from the application surface. Peel off the release liner. The simplest application technique is to bend the mat slightly and attach it along its shortest edge. The mat is then pressed firmly into place, preferably with a roller for larger pieces. This reduces the risk of leaving air pockets, which reduce the sound damping capacity. The temperature of the mat and application surface should not be below room temperature during fitting. Heating the material is not necessary.

## SPECIFICATIONS

### Appearance:

Black butyl based core with 2 mil aluminum constraining layer, craft paper release liner

### Thickness:

0.044" (1.12mm)

### Mass:

0.33lbs./ft.<sup>2</sup> (1.16kg/m<sup>2</sup>)

### Acoustic Loss Factor @ Temperature (Using ASTM method E756 @ 200 Hz):

0.185 @ +14° F (-10° C)

0.220 @ +32° F (+0° C)

0.256 @ +50° F (+10° C)

0.234 @ +68° F (+20° C)

0.196 @ +86° F (+30° C)

0.150 @ +104° F (+40° C)

0.113 @ +122° F (+50° C)

0.089 @ +140° F (+60° C)

Temperature Range (Optimal Performance):  
14° F to +140° F (-10° C to +60° C)

Temperature Range (Resistance):  
-65F to +300F (-54C to +149C)

### Adhesive Peel Strength:

42.6 lb./in. (74.8 N/cm) on cold steel

### Chemical Resistance:

Resistant to water and mineral oils

### Federal Standards Tests:

FMVSS 302: Meets

### Handling And Application:

Material must be stored at room temperature for best application

### Storage Information:

Number Of Sheets In Stack: 50 max  
Material must be stored horizontally in its wrapping

