

# THE Hoodliner®

CUSTOM THERMO/ACOUSTIC

FROM 

## CUSTOM THERMO-ACOUSTIC HOODLINER

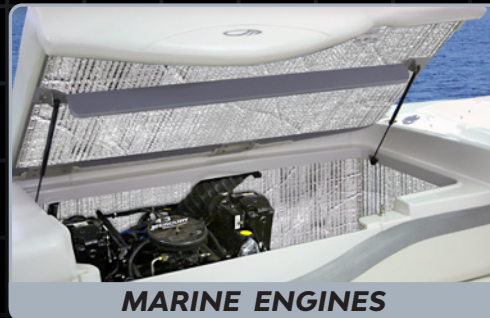
- » Reduce Engine Noise
- » Reflect Engine Heat
- » Protect Hood Paint
- » Oil & Water Resistant
- » 3/4 in. Acoustic Foam



### APPLICATIONS



**AUTOMOTIVE HOODS**

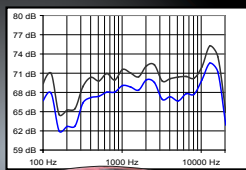



**MARINE ENGINES**

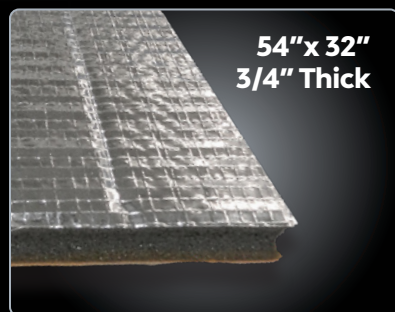


**GENERATOR BOXES**

Diesel engines are known for significantly more noise. Adding The Hoodliner to diesel engine compartments can significantly reduce the engine noise heard inside the vehicle.

**NOISY DIESEL ENGINES**



54" x 32"  
3/4" Thick

**Dynamat® The Hoodliner®** 

The Hoodliner will dress up your engine compartment and reduce irritating engine noise. The Hoodliner is made from 3/4" acoustic "sound soaker" foam with a reinforced, reflective, aluminized skin that is easy to clean and resistant to oil and water. The Hoodliner has a high-tack, pressure sensitive adhesive for easy peel and stick application.



THERMO-ACOUSTIC SERIES HOODLINER

## DESCRIPTION

The Hoodliner is a Polyether Urethane Based with a Reinforced Aluminized Facing and Pressure Sensitive Adhesive on application side, thermo-acoustic foam. This product is made to be applied inside the automotive engine compartment to the underside of the hood. Product shall be die cut to shape and placed onto the under hood surface. Adhesive side is smooth, giving complete contact with the underlying surface without any air pockets of channels. Both material and adhesive can withstand temperature ranges between -40C to +107C (-40F to +225F).

## ACOUSTIC PROPERTIES

The effectiveness of an acoustical foam is dependent on its ability to convert sound waves into heat energy. Hoodliner has a combination of open and closed cells to accept sound waves and dissipate them. If all of the foam cells were open, sound waves would simply pass through. Conversely, if all of the foam cells were closed, few sound waves would be absorbed. The acoustic foam in Hoodliner is cast in sheets, achieving consistent resistivity levels throughout the foam. Thus, maximum sound absorption is assured.

## HEAT RESISTIVE PROPERTIES

Hoodliner has a reinforced aluminized facing which provides 97% heat reflection. This reflection reduces heat transfer to the hood and reduces wear to the painted surfaces.

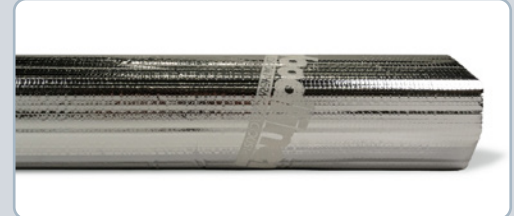
## APPLICATIONS

Hoodliner is used as an automotive engine compartment treatment. It is also used in other applications requiring heat resistive acoustical foams.

## INSTALLATION

Hoodliner should be cut to the desired size and shape 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 Hoodliner slightly and attach it along its shortest edge.

## SPECIFICATIONS



Appearance: Gray acoustic foam with aluminized facing

Top Surface: 1 mil Reinforced Aluminized Polyester

Thickness: 0.75"

Weight: .13 (lb./ft<sup>3</sup>)

Density: 2.0 (lb./ft<sup>3</sup>)

Random Incidence Acoustical Thermal Resistivity (R): 2.7 (hr-ft<sup>2</sup>-deg.F/BTU)

Tensile Strength: 28

Fire Classification: Meets HBF

Tear Strength: 2.4

Sound Absorption Coefficients (Using Reverberation Room Method -ASTM C423-84a and E-795-83 - Mounting A):

0.22 @ 125 Hz

0.42 @ 250 Hz

0.70 @ 500 Hz

0.93 @ 900 Hz

0.87 @ 1 kHz

0.75 @ 1.2 kHz

0.72 @ 2 kHz

0.71 @ 3 kHz

0.70 @ 4 kHz

Temperature Resistance Range: -40°C to +107°C (-40°F to +225°F)