

Product Description

SoundSkins Classic is a constrained layer damping material (CLD) composed of foil & rubber butyl. This custom blend of materials reduces structural noise by dampening vibrations and sound by converting the vibrational energy into low level heat.

Applications

- Car Audio
- Vehicle Audio Acoustic Installations – motorcycles, cars, trucks, SUVs, vans, buses, big rigs, etc.
- Home Appliances
- Any resonant surface that has excess vibration and echoes

Features



Excellent vibration and sound dampener, outperforms low quality, cheap mats



Waterproof, blocks moisture from coming into your vehicle



Non-toxic, made without asphalt or tar – will not release toxic fumes



Lifetime guarantee, made to stand the test of time when properly applied



One of the largest bulk sound deadening kits in the market!

Specifications

THICKNESS	0.0787"
MATERIAL	Pure butyl & embossed foil
ADHESIVE	High level pure butyl compound
APPEARANCE	Black or silver diamond embossed foil

Product Options	Size	Coverage
SoundSkins Classic Black	23.6" x 236" roll	38.75 sq ft
SoundSkins Classic Silver	23.6" x 236" rolls	38.75 sq ft

Temperature Range

- **Rated Temperature Range:**
-4°F to 464°F (-20°C to 240°C)
- **Optimal Performance:**
23°F to 104°F (-5°C to 40°C)
- **Recommended Application Temperature:**
50°F to 77°F (10°C to 25°C)

Storage and Shelf Life

Store SoundSkins Classic at room temperature in unopened packaging.
Install product within 2 years.

Tools Needed for Installation



Alcohol based cleaner & microfiber towel



Gloves



Sharp blade or scissors



Roller

Testing Data

Noise, Vibration, and Harshness (NVH) Testing

The SAE J1637 test was used to determine these results using a 0.79 mm thick steel bar (SAE Bar A). The composite loss factor “n” measures how much vibrational energy is converted into low level heat at different temperatures and frequencies. Any “n” value over 0.1 is considered good dampening. An undampened steel bar has a loss factor of 0.001-0.01, and the highest theoretical loss factor (no vibration) is 1.0.

Resonant Frequency @ 600 Hz

Temperature	n
-4° F (-20° C)	0.191
23° F (-5° C)	0.280
50° F (10° C)	0.335
77° F (25° C)	0.397
104° F (40° C)	0.213
131° F (50° C)	0.132

Resonant Frequency @ 800 Hz

Temperature	n
-4° F (-20° C)	0.206
23° F (-5° C)	0.227
50° F (10° C)	0.273
77° F (25° C)	0.447
104° F (40° C)	0.228
131° F (50° C)	0.110

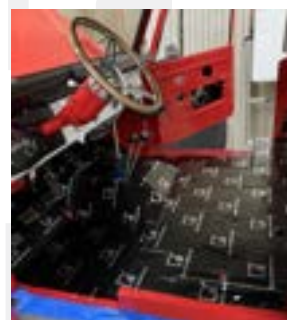
Thermal Resistance Rating

The R-value of SoundSkins Classic is 4.33 per inch. An R-Value determines a insulation material's ability to resist the transfer of heat. SoundSkins Classic can withstand temperatures between -4°F to 464°F (-20°C to 240°C).

Federal Standard Tests

SoundSkins Classic meets the FMVSS 302 (Federal Motor Vehicle Safety Standard), meaning the material is self extinguishing and is approved for use in motor vehicles.

Product Photos



We don't like to bash on other brands, but we have had so many customers approach us asking how our products compared to other popular products in the market, that we felt it had to be addressed.

So, here is a fact-based comparison between SoundSkins and other popular sound deadening brands. We implore you to take a look and decide for yourself the what the best product is for your needs!

Company Comparison

	SoundSkins	Dynamat	Kilmat	Noico
Shipping Policy	Free Standard Shipping to Continental USA, 2 Day shipping upgrade	\$4.95 Standard Shipping, Some kits ship free in the Continental USA	Dependent on merchant	Dependent on merchant
Return Policy	30 day returns	15% restocking fee, ALL Custom Cut Kits are final sale	Dependent on merchant	Dependent on merchant
Warranty	Lifetime guarantee, Warranty covers manufacturing defects	No guarantee as to results is offered, expressed, or implied	No Warranties; Exclusion of Liability; Indemnification	No Warranties; Exclusion of Liability; Indemnification
Materials & Testing Data	Yes	Yes	No	No
USA Office	Cerritos, CA	Hamilton, OH	PO Box in NJ	PO Box in NJ

Sound Deadening Product Comparison

	SoundSkins Classic	Dynamat Xtreme	Kilmat	Noico
Material Composition	High level pure butyl rubber bonded to metal aluminum foil	Butyl rubber bonded to aluminum constraining layer	Lists butyl and foil	Lists butyl and different improvers, and foil. Product is known to have an asphalt undercoating
Material Thickness	79mil / 2mm	67mil / 1.70mm	50mil / 1.27mm 80mil / 2.03mm 100mil / 2.54mm	80mil / 2.03mm
Temperature Rating	-40°F to 464°F	-65°F to 300°F	-49°F to 212°F	-49°F to 212°F
R-Value*	4.33 per inch	n/a	n/a	n/a
Avg. Acoustic Loss Factor**	0.258	0.210	n/a	n/a
FMVSS 302 (Federal Motor Vehicle Safety Standard)	Pass	Pass	n/a	n/a

*R-value is "the capacity of an insulating material to resist heat flow. The higher the r-value, the greater the insulating power







**Acoustic loss factor measures how much vibrational energy is converted to heat instead of sound. The theoretical maximum is 1 (meaning no vibration), but any value over 0.1 is considered very good. Tests were conducted at 6 service temperatures between -4 F and 131 F using testing method SAE J1637 on a 0.79mm thick steel bar.

Price Comparison

	SoundSkins Classic	Dynamat Xtreme	Kilmat	Noico
Sound Damping Mats	\$4.62 per sq ft	\$9.93 to \$16.10 per sq ft	\$1.62 to \$3.09 per sq ft	\$1.60 to \$6.50 per sq ft

*All prices per square foot are calculated from merchant and website listings. If there's a price range, it's to account for any discounts available by buying in bulk. Kit prices are found and calculated from company website listings. Last updated: 5/12/23

Other Facts to Consider

-  SoundSkins is non toxic and will not outgas, melt, or fall off in extreme heat. Our products are not made with toxic, hazardous materials such as asphalt or other cheap fillers that lose effectiveness in colder or hotter temperatures.
-  SoundSkins was designed and tested to meet automotive safety standards based on Federal Standards (FMVSS 302). Our products are fire resistant and self extinguishing.
-  Car metal surfaces can easily reach temperatures of 160°F+ when exposed to the sunlight for an hour or more. If you live in regions with hotter temperatures, it is important to ensure the material you use is able to withstand this heat without deteriorating.
-  Kilmat and Noico are both sold by the same company, STP Atlantic LLC, in the Russian Federation. It is likely made by the same manufacturer with the same materials.
-  Disclaimer listed on Kilmat and Noico websites: "STP Atlantic LLC does not review past postings to determine whether they remain accurate and information contained in such postings may have been superseded. These materials are not guaranteed or represented to be complete, correct or up to date...STP Atlantic LLC do not represent or warrant that the information on the website is accurate, complete, reliable, useful, timely or current..."
-  SoundSkins has full transparency over our product testing, product materials and safety data information. All data is available upon request and listed on our website as well.

Conclusion

We hope that this comparison sheet has been helpful as you consider SoundSkins amongst other popular brands for your project. We believe that the extra value our brand offers is clear and the decision is an easy one.

If you have any questions about our products or require any additional information, please feel free to reach out to us through our toll free number or email listed below.