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SOUNDSKINS PRO SPEC SHEET

Product Description

SoundSkins Pro is a constrained layer damping material (CLD) composed of 3 layers for optimal performance: acoustic closed cell foam, foil & rubber butyl. This custom blend of materials will dampen vibrations and sound by converting the vibrational energy into low level heat. The layer of foam will also absorb some airborne sound, act as a decoupler to isolate sounds and rattles, insulate your vehicle from heat, and improve your audio system output.

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

- 3-in-1 material saves you time and money on your project
- Excellent thermal acoustic insulation material
- 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

Specifications

THICKNESS	.177"
MATERIAL	.059" butyl & foil, .118" acoustic foam
ADHESIVE	High level pure butyl compound
APPEARANCE	Grey with SoundSkins logo

Product Options	Size	Coverage
SoundSkins Pro	20"x79" roll	11 sq ft
SoundSkins Pro Mega Kit	20"x79" roll, 4x rolls	44 sq ft
SoundSkins Pro Plus	29.5"x315" roll	64.5 sq ft

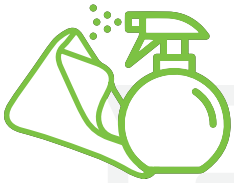
Temperature Range

- **Rated Temperature Range:** -4°F to 356°F (-20°C to 180°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

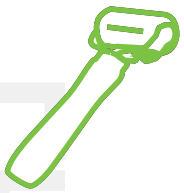
Store SoundSkins Pro at room temperature in unopened packaging.
Install product within 2 years.

Tools Needed for Installation


Alcohol based cleaner & microfiber towel


Gloves


Sharp blade or scissors


Roller

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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)	0.189
23°F (-5° C)	0.202
50°F (10° C)	0.283
77°F (25° C)	0.259
104°F (40° C)	0.133
131°F (50° C)	0.079

Resonant Frequency @ 800 Hz

Temperature	n
-4° F (-20° C)	0.219
23°F (-5° C)	0.216
50°F (10° C)	0.321
77°F (25° C)	0.360
104°F (40° C)	0.152
131°F (50° C)	0.083

Thermal Resistance Rating

The R-value of SoundSkins Pro is 3.12 per inch. An R-Value determines a insulation material's ability to resist the transfer of heat. SoundSkins Pro can withstand temperatures between -4°F to 356°F (-20°C to 180°C).

Federal Standard Tests

SoundSkins Pro 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

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HOW DOES SOUNDSKINS PRO STACK UP?

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	Guarantees the contents of the container only	Specifically disclaims all warranties and conditions of any kind	Specifically disclaims all warranties and conditions of any kind
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 Pro	Dynamat Xtreme	Kilmat	Noico
Material Composition	High level pure butyl rubber bonded to metal aluminum foil & closed cell acoustic foam	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	180mil / 4.57mm	67mil / 1.70mm	50mil / 1.27mm 80mil / 2.03mm 100mil / 2.54mm	80mil / 2.03mm
Temperature Rating	-40°F to 356°F	-65°F to 300°F	-49°F to 212°F	-49°F to 212°F
Decoupling Properties	Yes	No	No	No
R-Value*	3.12 per inch	n/a	n/a	n/a
Avg. Acoustic Loss Factor**	0.225	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.

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HOW DOES SOUNDSKINS PRO STACK UP?

Price Comparison

	SoundSkins Pro	Dynamat Xtreme	Kilmat	Noico
Sound Damping Mats	$6.65 to $9.90 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
Vehicle Specific Kits	4 Door Kits: $279 to $379 Floors + 4 Door Kits: $399	4 Door Kits: $300 to $400 Floors + 4 Door Kits: $750 to $850	n/a	n/a

*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.

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