

Automotive Technical Data Sheet

3M[™] Thinsulate[™] Acoustic Insulation AU3002-2

AU3002-2

General Descripton

This non-woven mat has excellent sound absorbing properties useful in many automotive interior applications, for example inside door panels, instrument panels, pillar stuffers, and package trays. It is compressible, non-linting, lightweight, and can be easily die-cut. Supplied with a black polypropylene scrim on one side. Scrim adhesion enhanced through surface embossing.

General Construction

The web is composed of 35% polyester staple fibres, and 65% polypropylene fibres. The polypropylene fibres are extremely fine, producing the high-energy absorption characteristic with the low weight. The polyester fibres are added to strengthen the web. The black scrim attached to one side is 100% polypropylene non-woven fabric.

Magnified image of ThinsulateTM Acoustic Insulation showing fine PP and larger PE fibres. ThinsulateTM Acoustic Insulation material





Special Characteristics

Suitable for application in vehicle cabin and luggage compartment interiors, especially vertical surfaces. As the material compresses easily, it is not recommended for applications under the carpet (or other flooring) but its lightweight makes it ideal for other horizontal applications like combining with headliners for example.

Attaching to trim panels is recommended, preferably using ultrasonic or heat spot welding, but adhesives (transfer tapes or hot melt) may also be used. Not recommended for applications where temperatures will be above 90°C.

As the fibres are hydrophobic, this material will not absorb water. Therefore the risk of mildew and odours developing are minimal allowing this product to be used in humid or moist conditions.



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General Properties

Composition 65% polypropylene, 35% polyester (Web)

100% polypropylene (Scrim)

White web with black scrim. Colour

Physical Properties (Typical values)

Thickness 19mm (SAE J1355 @ 0,002 psi, 14 N/m²)

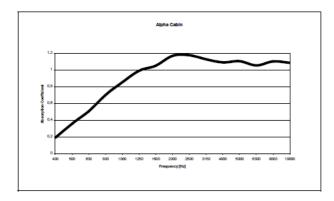
 342 g/m^2 Surface weight 18,2 kg/m³ Density

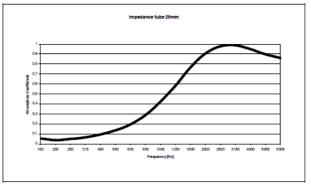
Flammability 0mm/min as per FMVSS 302 (DIN75200, ISO 3795 (1976))

Temperature stability 90°C for 2000 Hours

Acoustical Properties

- 1. Alpha Cabin Measurement with 1,2m² sample measuring Random Incidence Sound. Tested with scrim facing away from the microphones.
- 2. Dual Microphone Impedance Tube Method that measures Normal Incidence Sound. Tested with the scrim facing away from the microphones. (ASTM E1050).





Additional Information This data sheet contains typical information specific to the product. This information should not be used to determine a product specification.

Samples and further information on the use of the product are available separately.

Important notice to to purchaser

All statements, technical information, and recommendations herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. Please ensure before using our product that it is suitable for your intended use. All guestions of liability relating to this product are governed by the Terms of Sale subject, where applicable, to the prevailing law.

