0920

Thinsulate™ Acoustic Insulation AU0920

Data Sheet

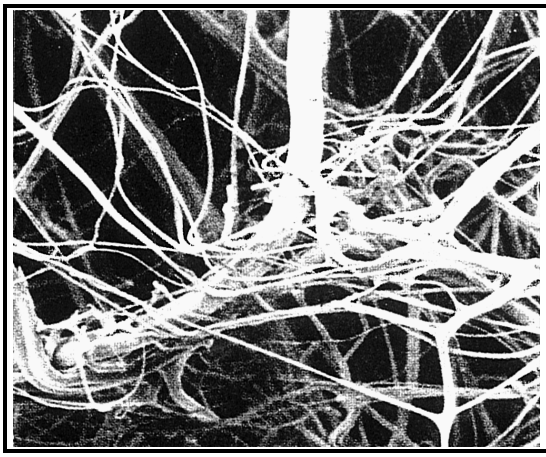
General Description

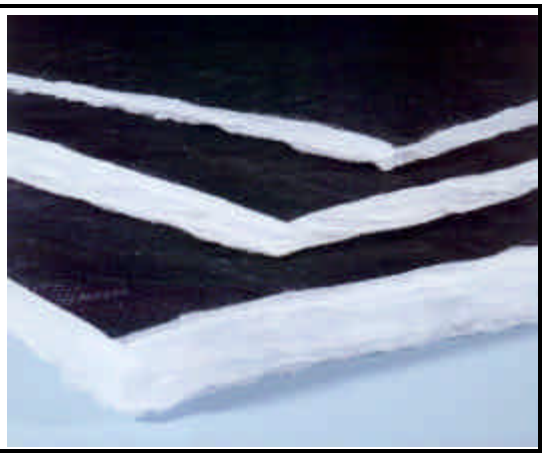
This non-woven mat has excellent sound absorbing properties useful in many automotive interior applications, for example inside door panels, instrument panels, pillar stuffers, and package trays. It is compressible, non-linting, lightweight, and can be easily die-cut. A polyolefin scrim on one side protects the fibres.

General Construction

The web is composed of 29% Polyester staple fibres, and 71% 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 white scrim attached to one side is a 100% polypropylene non-woven fabric.

Magnified image of Thinsulate™ acoustic insulation showing fine PP and larger PE fibres.	**Thinsulate™ acoustic insulation material (note: black scrim supplied with selected AU products only).**





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 light weight 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:	71% polypropylene, 29% polyester (Web) 100% polypropylene (Scrim)
Colour	White web with white scrim.

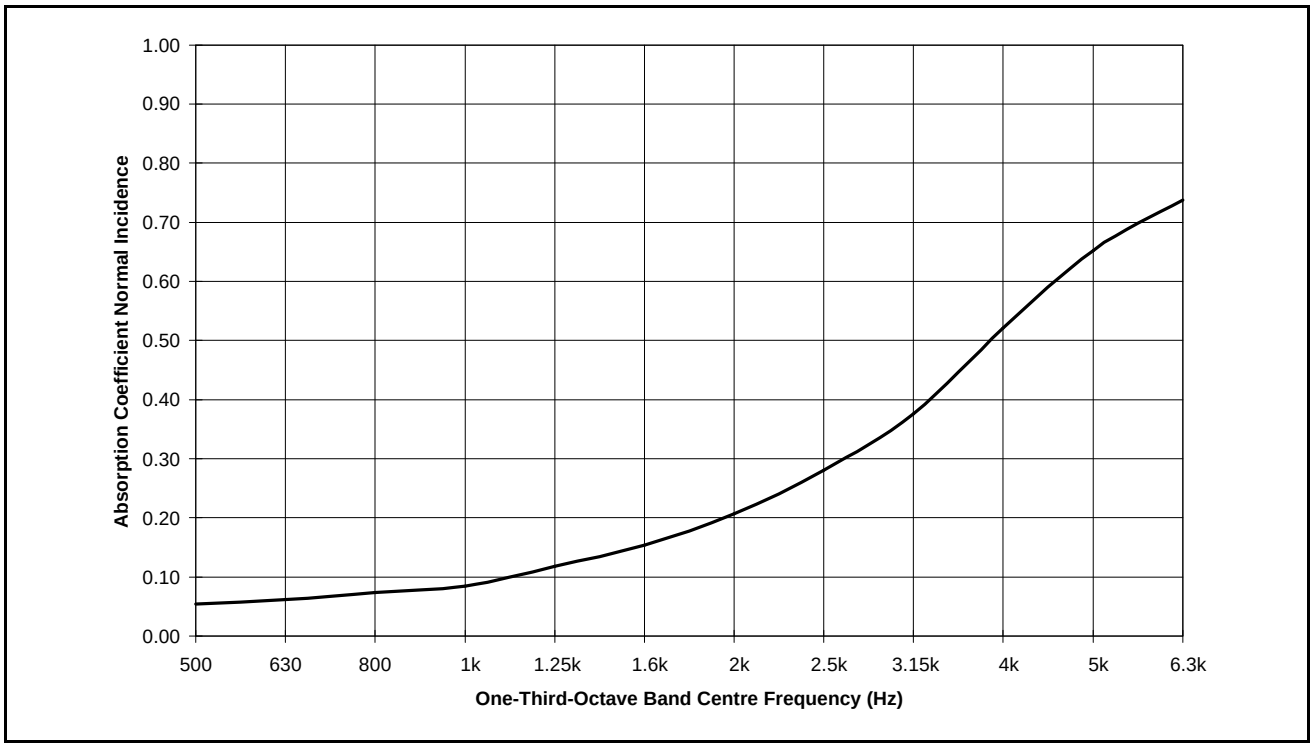
Physical Properties (Typical values)

Thickness:	10mm (Tested to 3M procedure OTM20005)
Surface Weight:	107g/m^2 (tested to 3M procedure OTM 1151)
Density:	11.7 kg/m^3
Flammability:	Meets FMVSS 302 (DIN75 200, ISO 3795 (1976))

Acoustical Properties

Sound Absorption Properties measured according to ASTM E1050

Dual Microphone Impedance Tube Method that measures Normal Incidence Sound.
Tested with the scrim facing away from the microphones.



Additional Information

This data sheet contains typical information specific to the product. This information should not be used to determine a product specification.
Further information on the use of the product and samples 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 questions of liability relating to this product are governed by the Terms of Sale subject, where applicable, to the prevailing law.

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