

AlphaShield 1002-HT

DESCRIPTION

AlphaShield 1002-HT has been specifically designed as an acoustical heat shield material. The product is a four-ply lamination of aluminum foil and tri-directional fiberglass scrim with a needle punched polyester nonwoven to absorb sound and heat. A one-side high temperature pressure sensitive adhesive insures an easy to mount product.

CERTIFICATIONS

Meets Ford Engineering Material Specification WSS-M99P32-D6 (Design Verification Testing).

COMPOSITION

<u>Component</u> <u>Description</u>

Foil 0.002" (51 micron) Aluminum Reinforcement Tri-directional Fiberglass Scrim

Nonwoven Core Needle Punch Polyester

Adhesive Backing High Temperature Pressure Sensitive

PROPERTY DATA

CHARACTERISTIC	METHOD	TYPICAL VALUES	
		<u>ENGLISH</u>	<u>METRIC</u>
WEIGHT	ASTM-D-3776	17.5 oz/sy	593 g/m ²
THICKNESS	ASTM-D-1777	0.105"	2.67 mm
TENSILE STRENGTH	ASTM-D-5035	Warp- 60 lbs/inch	10.72 kg/cm
		Fill- 40 lbs/inch	7.14 kg/cm
TEAR STRENGTH	ASTM-D-5587	Warp- 25 lbs	11.34 kg
		Fill- 25 lbs	11.34 kg
BEACH PUNCTURE	ASTM-D-781	1200 units (318 in-lbs)	366 cm-kg
PEEL ADHESION	ASTM-D-3330	1.25 lbs/inch	223 g/cm
THERMAL CONDUCTIVITY	ASTM-C-177	at 72.2°F: 0.29 BTU in/hr ft ² °F at 199.4°F: 0.34 BTU in/hr ft ² °F	at 24°C: 0.042 W/m-°K at 93°C: 0.0518 W/m-°K

DATA SHEET: 14268 REV: E DATE: 8/29/2019

Specializing in marine, aerospace, automotive and commercial fabrics for thermal and industrial applications

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