



## Material Specification Sheet

**Material Number:** A87

**Description:** Customizable Flexible Porous PET Vertically Lapped Nonwoven Thermo-Acoustic Insulation (up to 200°C)

**Summary / Applications:** SonusTex-A87 is a high temperature (200°C) rated vertically lapped synthetic fiber-based thermos-acoustic insulation material. It is engineered for higher temperature resistance for use in engine / exhaust bay applications in the automotive, commercial vehicle, industrial, bus and railcar industries. It is offered in a high performance micro-perforated, or a standard non-perforated AL foil faced version. It has improved performance and physical stability over melamine and urethane foams and fiberglass, and is a safe, non-toxic alternative to fiberglass.

### Physical Properties of Acoustic Composite:

Property	Test Method	Value
Composition		100% PET nonwoven thermally bonded (dark grey or black color)
Facing		0.7 mil reinforced aluminum foil (micro-perforated and non-perforated)
Available Surface Density of Fiber Core	DIN EN 12 127	250- 2000 gsm
Available Thickness Range	ISO 9073-2	2 mm – 75 mm
Flammability	FMVSS302 SAE J369 ASTM E162 ASTM E662 Bombardier SMP 800-C UL FTSR2	≤ 100 mm / min., self-extinguishing SE/0 or better Flame Spread- FSI 5 Smoke Development- SDI 14 Toxicity UL 2200 Certified
Maximum Service Temperature	Heat soak, 42 days, inspect material	200°C (Continuous)
Thermal Conductivity	ASTM C518	0.036 W/m-K typical at 22.5°C
Facing Emissivity	ASTM E408	0.02- 0.05
Facing Peel Strength	ASTM D1876 T-peel	> 6 N/25mm width
Moisture Absorption	At 50°C, 90% R.H. (4 days or more)	<0.03% by vol.
Water/Humidity Resistance	42-day immersion in water	No degradation
Mold/ Mildew Resistance	ASTM G21	No Mildew
Chemical Resistance (Petrol, Diesel, Transmission, Brake, Glycol Fluids)	GMW14194, FCA MS-HZ-100	No degradation

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