



MilFiber-HT

MilFiber-HT is a vertically lapped synthetic fiber-based sound absorber that is high temperature rated. It is comprised of 100% PET non-woven thermally bonded fiber that is dark grey in color. It can also have a facing attached to further enhance the material performance. MilFiber-HT is able to withstand temperatures up to 200°C. It has been engineered to be used in high temperature applications where traditional polyurethane and melamine foams will not perform as well long term. It has a lower cost than melamine, absorbs less water and dries much faster. Its high internal strength prevents the material from delaminating.

MilFiber-HT is a low VOC material and passes FMVSS-302 and UL94 HF-1.

TYPICAL APPLICATIONS:

- Vehicle Engine Bay
- Enclosure Engine/Exhaust Bay
- Lower cost alternative to melamine



Typical Physical Properties

Specification	Test Method	Typical Results
Material Composition		100% PET non-woven thermally bonded (dark grey color)
Surface Density of Fiber Core Range	DIN EN 12 127	250-2,000 gsm
Thickness Range	ISO 9073-2	2mm-60mm
Maximum Service Temperature	Heat soak, 42 days, inspect material	200°C (Continuous)
Thermal Conductivity	ASTM C518	0.036 W/mK @ 22.5°C
Moisture Absorption	@ 50°C, 90% RH (4 days or more)	<0.03% by vol.
Humidity Resistance	42 day immersion in water	No degradation
Mold/Mildew Resistance	ASTM G21	No Mildew
Odor	VDA 270	≤ Group 2 (no issues with odor)
Fogging	DIN 75201-B/GM3235	≤ 1mg (compliant for automotive interiors)
Emissions	VDA 278	VOC ≤ 100ppm / FOG ≤ 200ppm
Chemical Resistance (Petrol, Diesel, Transmission, Brake, Glycol Fluids)	GMW14194, FCA MS-HZ-100	No degradation
Flammability	FMVSS 302 UL94 HF-1	≤ 100mm/min, self-extinguishing Pass