

TI650

Heat Shield Insulation Material

Description

TI650 is a very low density, virtually organic-free material with excellent heat resistance and extremely low thermal conductivity. There is no detectable smoke or odor emitted upon initial heat-up and it maintains physical integrity when exposed to temperatures as high as 650°C. It is available in 0.5mm, 0.8mm, and 1.0mm thicknesses; other thicknesses may be subject to a minimum order quantity.

Typical Properties

Property	Value	Method
Density, g/cm ³	0.9	ASTM F 1315
Compressibility, % (at 6.9MPa)	12 (min.)	ASTM F 36K
Recovery, %	24 (min.)	ASTM F 36K
Tensile Strength, AMD, MPa (psi)	2.5 (363) (min.)	ASTM F 152
Weight Loss, % (1h at 600°C)	23 (max.)	ASTM F 495
Thermal Conductivity, W/m.K (at 300°C)	0.12 (Typical Value)	ASTM F 433
Flame Resistance	DNI	SAE J 369
Combustibility Testing (at 650°C)	No flame or smoke	ASTM E 136

Remarks and Related Documents

Typical values determined by the test methods required for ASTM F-104, Type 3 materials.

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