T-P INS 3 A0/A1 - ELECTRICALLY INSULATING INTERFACE MATERIAL WITH HIGH THERMAL PERFORMANCE

EMI THERMAL

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DATASHEET

FEATURES

- High tensile strength, designed to prevent cut through and electrical shorts
- Low Thermal Impedance
- UL94-V0 recognised
- No viscosity, 0.40mm thick
- Adhesive option available (A1)

APPLICATIONS

- SMPS, Telecom Devices, Visual Devices, Networking Products, LCD-TV, Notebook PC's, PC's, ME, Household Applications etc.

PROPERTIES	TEST METHOD	UNIT	T-P-INS 3
Material	-	-	Thermally Conductive Silicon Cloth
Colour	Visual	-	White
Thickness (±10%)	-	-	0.4
Thermal Conductivity	ASTM-D5470	W/mK	3.0
Hardness (± 5)	ASTM-D2240	Shore A	90
Flammability Rating	UL94	-	V0
Breakdown Voltage	ASTM-D149	kV	≥4.0
Specific Gravity	ASTM-D792	g/cm^3	2.77
Working Temperature	-	°C	-40 - 200
Volume Resistance	ASTM-D257	Ohm-cm	10^{11}
Tensile Strength	ASTM-D412-1998A	Mpa	1

THERMAL IMPEDANCE (0.44MM)

Pressure (psi)	10	20	30	40	50	60
Thickness (mm)	0.43	0.42	0.41	0.4	0.4	0.39
Compression Ration (%)	2.27	4.77	6.59	8.18	9.77	11.13
Thermal Impedance (°C-in^2/W)	0.45	0.42	0.4	0.38	0.37	0.35

NOTES

- Customised shapes are available
- The above performance data is tested in an environment of 70% humidity, temperature 25 °C
- This data is intended for reference purposes only. It is recommended that the material is tested to fully evaluate its performance ensuring it is fit for purpose.

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