

T-Pad 6500

Thermally Conductive Pad



T-Pad 6500 is a non-silicone electrically isolating thermal interface material that delivers an exceptionally high level of thermal conductivity of 6.5W/mK.

T-Pad 6500 is highly suited for rugged and extremely demanding applications as well as silicone sensitive applications. Its inherent softness removes micro air voids between contact surfaces at the interface. The cold-flow action of **T-Pad 6500** mounted to a cold wall or chassis, via a spring, metal clip or clip, delivers reliable and high thermal performance whilst also guaranteeing electrical isolation.

Features

- High dielectric strength and thermal performance
- Thermal conductivity of 6.5W/mK
- Soft and compliant to minimise interfacial thermal resistance but rugged and strong in its application

Availability

- Available in standard thicknesses of 0.2mm
- Supplied with a pressure sensitive and thermally conductive adhesive on one side
- Standard sheet sizes of 356mm x 406mm
- Custom die-cut parts are also available

Typical Physical Properties

Property (unit)	Test Method	T-Pad 6500 (0.2mm)
Colour	Visual	Light blue
Thermal Conductivity (W/mK)	ASTM D5470	6.5
Hardness (Shore A)	ASTM D2240	75
Thermal Impedance (°C-cm²/W @ 689KPa)	ASTM D5470	0.95
Operating Temp. (°C)	-	-40 to +125
Flame Rating	UL94	V-0

Benefits

- Guaranteed electrical isolation
- Fills micro air voids between device and mating metal work at the interface, improving thermal performance
- Maintains temperature stability over a wide range of temperatures

Recommended Uses

- Mounting heat generating electronic devices or PCB's to a cold wall, chassis or heatsink
- Cooling power devices mounted to a heatsink or chassis in PSUs
- Thermally coupling TO220 and TO247 devices to heatsinks or nearby metal work

Electrical and Mechanical Information

Property (unit)	Test Method	T-Pad 6500 (0.2mm)
Breakdown Voltage (Volts AC)	ASTM D149	>4000
Dielectric Constant (@1MHz)	ASTM D150	3.1
Volume Resistivity (Ω-cm)	ASTM D257	2 x 10 ¹¹
Outgassing CVCM (%)	ASTM E595	0.04
Density (g/cc)	-	1.46



www.universal-science.com
UK  +44 (0) 1908 222 211

IT  +39 (02) 395 613 61 FR  +33 (0) 1602 00276



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