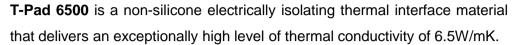
# **T-Pad 6500**

# Thermally Conductive Pad





**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 <sup>11</sup>
Outgassing CVCM (%)	ASTM E595	0.04
Density (g/cc)	-	1.46



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