

UTP 100

Ultra Soft, Reinforced Gap Filler Pad

UTP100 thermal conductive silicone pad is made of silica gel and thermal conductive ceramic filler, with glass fiber cloth as reinforcing material, and processed by special technology. With single-side self-adhesive, puncture proof, anti-penetration voltage enhancement, is a very soft, has excellent compressibility of thermal conductivity silica gasket, and electronic components close contact, effectively reduce the interface thermal resistance. At $-40^{\circ}\text{C}\sim 150^{\circ}\text{C}$ can work stably, at the same time meet the UL94V0 grade flame retardant requirements.



Features and Benefits

- 1.0 W/m.K
- Ultra soft and highly compliant
- Naturally tacky on one side
- High cut-through resistance
- High breakdown voltage
- Tensile Strength – 2.5 MPa
- Elongation – 60%

Typical Applications

- Networking and Telecommunications
- IT: Notebooks, Tablets, Power Conversion
- Industrial: LEDs, Power Supplies and Conversion
- Automotive: Control Modules, Turbo Actuators
- Consumer Electronics: Gaming Systems, and LCDs

Typical Properties		
Attribute	Value	Test Method
	UTP 100	-
Composition	Ceramic Filler, Silicone, and Reinforced Fiberglass	-
Color	White and Brownish Red	Visual
Thickness (mm)	0.5 to 12.0	ASTM D374
Density (g/cc)	1.9	ASTM D792
Hardness (Shore OO)	30	ASTM D2240
Usage Temperature ($^{\circ}\text{C}$)	- 40 to 150	-
Electrical		
Breakdown Voltage (kV)	≥ 8	ASTM D149@0.5mm
Volume Resistivity ($\Omega\cdot\text{cm}$)	10^{13}	ASTM D257
Dielectric Constant @1000Hz	5.3	ASTM D150
Flammability	V-0	UL 94
Thermal		
Thermal Conductivity (W/m.K)	1.0	ISO 22007-2

Storage

Store in a cool, dry, well-ventilated place.

Shelf life

Shelf life of the product is 12 months after date of shipment



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Pressure vs. Deflection

Reference only

