

Perfect Insulations

AN ISO 9001:2015 COMPANY

133, 10th A Main Road, 3rd Stage, Rajajinagar, Bengaluru-560010, Karnataka,

Ph-9845001203.

Shop- www.perfectinsulations.com

CP300 Thermal Silicone Pad

Thermally conductive silicone sheets have certain flexibility, excellent insulation, compressibility, and natural surface viscosity. They are specially produced for designs that use gaps to transfer heat. They can fill gaps and complete heat transfer between heating parts and heat dissipation parts. At the same time, they also play the role of insulation and shock absorption. They are highly manufacturable and practical, and have a wide range of thickness applications. They can meet the design requirements of miniaturization and ultra-thin equipment. They are an excellent thermal conductive filling material and are widely used in electronic and electrical products.

Thermally conductive silicone sheets are designed from an engineering perspective to match the material with the irregular surface of the product, and high-performance thermal conductive materials are used to eliminate air gaps, thereby improving the overall heat conversion capacity and allowing the device to work at a lower temperature.

Product Features

- Good thermal conductivity, low thermal resistance
- Good insulation, flame retardant
- Good surface wettability, natural viscosity
- Good compressibility, long life
- Multiple thickness options, can be made into any size

Technical Data Sheet

Test Item	Unit	Standard	Test Method
Color	/	Grey, Blue	Visual
Thickness	mm	0.3~18mm	/
Specific gravity	g/cm ³	2.8±0.1	ASTM D792
Hardness	Shore C	20~40	ASTM D2240
Tensile strength	MPa	≥0.20	ASTM D412
Compression ratio	%	10~30	ASTM D412
Temperature range	°C	-40~+150	EN 344
Volume resistivity	Ω·m	≥1.1*10 ¹³	ASTM D257
Voltage resistance	KV/mm	≥9	ASTM D150
Flame retardancy	KV/mm	V-0	ASTM D149
Thermal conductivity	/	3.0±0.3	UL 94
Oil permeability	w/m.k	≤1.0	ASTM D5470
Dielectric constant	1MHZ	6.37	ASTM D150

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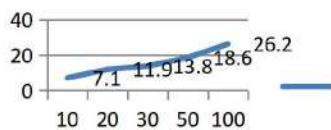
Product Application

- LED lighting
- Backlight module
- Switching power supply
- Medical equipment
- Communication network
- Beauty equipment
- Security monitoring
- Wireless equipment
- Network products
- Consumer electronics
- PC server/workstation
- New energy battery

Remark:

- If the thickness is less than 0.5mm, it must be filled with glass fiber and the hardness should be more than Shore C 30.
- Regular size: 200*400mm, special size and shape can be customized.
- Storage validity period: 18 months, shelf life 5 years.
- Recommended storage temperature: 15°C~30°C, humidity <70%.

CP300-T20-B1 Compression Ratio
and Pressure Curve



CP300

