

SINOGUIDE TECHNOLOGY LIMITED

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Technical Data Sheet

TCP-xxxSF Series Silicone-Free Thermal Conductive Pad

Features:

- 3.0-5.0 W/mk high thermal conductivity
- Low Thermal Resistance at Low Pressure
- Naturally tacky for easy application
- Non-Silicone & no oil bleeding issue

Applications:

- Between heat-generation Component and and heatsink.
- Automotive engine control, Graphics Cards, Telecom device.
- Wireless Hub, Military equipment, power supply.
- Optical devices, Surveillance cameras
- Telecommunication Hardware



TYPICAL PROPERTIES OF TCP-xxxSF Series			
PROPERTY	TCP300SF	TCP500SF	TEST METHOD
Color	Light Grey	Dark Grey	Visual
Thickness (mm)	1.0-3.0	1.0-3.0	----
Hardness (Shore 00)	45	60	ASTM D2240
Density (g/cc)	2.92	3.30	ASTM D792
Tensile Strength (Psi)	6.5	5.2	ASTM D412
Elongation (%)	13%	10%	ASTM D412
Percent Deflection@ 2mm, 20psi	18%	14%	ASTM D575
Continuous Use Temp (°C)	-40 to 125	-40 to 125	EN344
ROHS & REACH	Compliance		IEC 62321 & EN14372
ELECTRICAL			
Breakdown Voltage (VAC/mil)	≥180	≥180	ASTM D149
Dielectric Constant (1MHz)	12.6	12.6	ASTM D150
Volume Impedance (ohm-cm)	1.0 x10 ¹³	1.0 x10 ¹³	ASTM D257
Flame Rating	VO		UL 94
THERMAL			
Thermal Conductivity (W/m.k)	3.0	5.0	ASTM D5470

Configurations Available:

Sheet size: 200 x 400mm, 350x350mm, individual parts available

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