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FLAT/RM 01 21/F PROSPER COMMERCIAL BUILDING 9 YIN CHONG STREET KOWLOON HONGKONG
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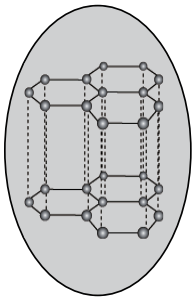
Technical Data Sheet

TCG Series Thermal & Electrical Conductive Graphite

Features:

◇ 100% Pure Graphite
◇ Ultra high thermal conductivity with very low thermal contact resistance
◇ Halogen free and RoHS in compliance
◇ High thermal performance in X-Y axis and Y axis simultaneously



Applications:

◇ Digital camera, Digital video camera
◇ Chipsets, memory chips, micro BGA
◇ Smart phones, laptops
◇ LED back light, PDP/LCD/OLED screens, Ultra bright LED etc.

TYPICAL PROPERTIES OF TCG Series			
PROPERTY	TCG4000	TCG5000	TEST METHOD
Carbon Content, %	≥99.7	≥99.5	JB/T 9141.6-1999
Chloride Content, ppm	≤35	≤26	JB/T 7758.4-2008
Sulfur Content, ppm	≤800	≤1000	JB/T 7758.3-2008
Thickness, mm	0.15 / 0.25 / 0.50mm	0.15 / 0.25 / 0.50mm	ASTM D374
Tensile Strength, Mpa	≥4.3	≥4.8	JB/T 9141.8-1999
Compression set, %	25-35	20-28	--
Density, g/cc	1.32	1.5	ASTM D792
Continuous Use Temp, °C	-60 - 300	-60 - 300	EN344
RoHS / Halogen-free	In compliance	SGS	
ELECTRICAL			
Electrical Resistance (X-Y axis)	8μΩ-m	10.2μΩ-m	ASTM D257
Electrical Resistance (Z axis)	310μΩ-m	360μΩ-m	ASTM D257
RoHS / Halogen-free	In compliance	In compliance	SGS
THERMAL			
Thermal conductivity (X-Y axis), W/m.K	420.0	600.0	ASTM E1461
Thermal conductivity (Z axis), W/m.K	4.8	5.5	ASTM D5470
	5.5	7.0	ASTM E1461

Configurations Available:

Standard Roll size:1000mm * 50M, individual die-cut parts available

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