

PK504

Low Oil-Bleeding Thermal Conductive Gel

LiPOLY PK504 is a soft thermally conductive gap filler. With a thermal conductivity of 5.0 W/m*K and a low thermal impedance, PK504 is suitable for a wide range of applications. This product can be supplied as standard sheets, custom die-cuts or custom molded parts making it suitable for a wide range of applications. PK504 is also UL 94V-0 approved and REACH and RoHS compliant.

Features-

- Thermal conductivity:5.0W/m*K
- Naturally tacky for ease of manufacture
- Highly compliant
- Low thermal impedance
- Available in a range of thicknesses

Typical Applications-

- Notebook computers
- Heat pipe assemblies
- Memory modules
- TV hardware
- Automotive electronics
- Mobile devices
- High speed mass storage drives
- Set top box
- IP CAM

Specifications-

- Sheet form
- Die-cut parts



Typical Properties-

PROPERTY	PK504	TEST METHOD	UNIT
Color	Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	3.0	ASTM D792	g/cm ³
Hardness	50	ASTM D2240	Shore OO
Application temperature	-60~180	-	°C
COMPRESSION@1.0mm			
Deflection @10 psi	12	ASTM D5470 modify	%
Deflection @20 psi	16	ASTM D5470 modify	%
Deflection @30 psi	20	ASTM D5470 modify	%
Deflection @40 psi	26	ASTM D5470 modify	%
Deflection @50 psi	30	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	8	ASTM D149	KV/mm
Surface resistivity	>10 ¹¹	ASTM D257	Ohm
Volume resistivity	>10 ¹⁰	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	5.0	ASTM D5470	W/m*K
Thermal impedance@10psi	0.43	ASTM D5470	°C-in ² /W
Thermal impedance@30psi	0.37	ASTM D5470	°C-in ² /W
Thermal impedance@50psi	0.31	ASTM D5470	°C-in ² /W
FLAME RATING			
UL Flammability class		V-0 UL94	-

Oil Bleeding-

Size 30*30mm²
 Thickness 1.0mm
 Compression 50%
 Temperature 25°C
 Time 120h

