

# **PK504**

# **Thermal Conductive Gel Pad**

LiPOLY PK504 is a material designed for gap filling. The thermal conductivity is 5.0 W/m\*K. The hardness is Shore OO/50 with high flexibility, high compressibility, high insulating, great self-adhesive, which can cover the tolerance of design making it very stable. It also offers customized shape molding service.

### **■ FEATURES**

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

# **■ TYPICAL APPLICATION**

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

## **TYPICAL PROPERTIES**

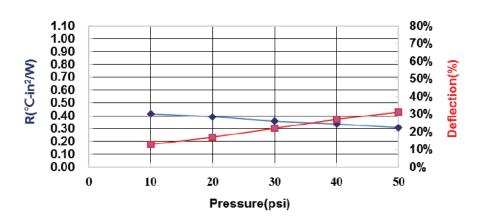
PROPERTY	PK504	TEST METHOD	UNIT
Color	Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	3.0	ASTM D792	g/cm³
Hardness	50	ASTM D2240	Shore OO
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	13	ASTM D5470 modify	%
Deflection @20 psi	17	ASTM D5470 modify	%
Deflection @30 psi	22	ASTM D5470 modify	%
Deflection @40 psi	27	ASTM D5470 modify	%
Deflection @50 psi	31	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	8	ASTM D149	KV/mm
Surface resistivity	>1011	ASTM D257	Ohm
Volume resistivity	>1010	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	5.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.415	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	0.393	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.358	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.336	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.307	ASTM D5470	°C-in²/ W

#### **■ SPECIFICATIONS**

/ Sheet form / Die-cut parts



#### Thermal Resistance vs. Pressure vs. Deflection



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