

PK404

Thermal Conductive Gel

LiPOLY PK404 is a material for gap filling. The thermal conductivity is 4.0W/m*K. The hardness is Shore 00/40 with highly flexible, highly compressed, highly insulating, great self-adhesive, which can cover the tolerance of design, make it very stability. It also offer customized shape molding service.

LiPOLY' s ability of research and development is providing our best thermal solution to customers, which can satisfy customer special requirement on advanced product. The product is qualified for UL.



Features-

- Thermal conductivity:4.0W/m*K
- Naturally tacky and high resilience
- High reliability
- Easy to assemble
- Super soft and high compressibility

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

PROPERTY	PK404		TEST METHOD	UNIT
Color	Blue		Visual	-
Surface tack 2-side/1-side	2		-	
Structure	-		-	
Thickness	0.5~5.0		ASTM D374	mm
Density	2.8		ASTM D792	g/cm ³
Hardness	40		ASTM D2240	Shore 00
Application temperature	-60~200		-	°C
COMPRESSION	1.0mm	2.0mm		
Deflection @10 psi	15	36	-	%
Deflection @20 psi	19	46	-	%
Deflection @30 psi	27	53	-	%
Deflection @40 psi	34	56	-	%
Deflection @50 psi	40	61	-	%
ELECTRICAL				
Dielectric breakdown	>13		ASTM D149	KV/mm
Surface resistivity	>10 ¹⁰		ASTM D257	Ohm
Volume resistivity	>10 ¹⁰		ASTM D257	Ohm-m
THERMAL				
Thermal Conductivity	4		ASTM D5470	W/m*K
Thermal impedance@10 psi	0.51		ASTM D5470	°C-in ² /W
Thermal impedance@30 psi	0.41		ASTM D5470	°C-in ² /W
Thermal impedance@50 psi	0.36		ASTM D5470	°C-in ² /W
FLAME RATING				
UL Flammability class	V-0		UL94	-

※These data are provided for reference only. Engineers are reminded to test the material in varied application.