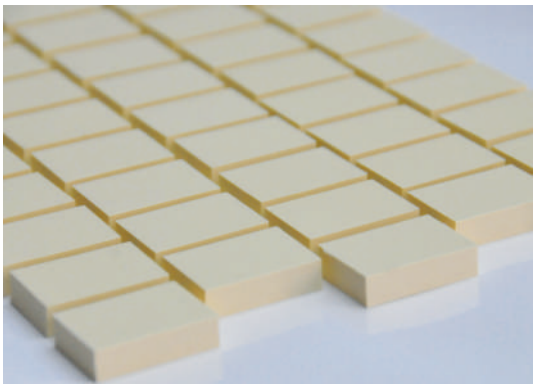
PK105

Ultra low oil-bleeding Thermal Conductive pad

LiPOLY PK105 is a material for gap filling. The thermal conductivity is 1.2W/m*K. The hardness is Shore A/20, highly compressed, and less oil- bleeding, which can avoid the electronic component polluted by silicon oil, or makes the dust stick on it, to keep it nice and clean. The product is qualified for UL and ROHS.

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:1.2W/m*K
- Super low Oil-Bleeding
- High reliability
- Not eazy to broken

Typical Applications-

- Power supplies
- Between a component and heat sink
- Flat-panel displays
- HDDs/DVDs ・LED
- Heat pipe assemblies
- Memory modules
- LED
- Set top box ・IP CAM

Specifications-

- Sheet form
- Die-cut parts

PROPERTY	PK105		TEST METHOD	UNIT
Color	Yellow		Visual	-
Surface tack 2-side/1-side	2		-	-
Thickness	0.5~12		ASTM D374	mm
Density	2.1		ASTM D792	g/cm^3
Hardness	15		ASTM D2240	Shore A
Application temperature	-60~200		-	℃
COMPRESSION	**1.0mm**	**2.0mm**		
Deflection @10 psi	2	10	-	%
Deflection @20 psi	3	13	-	%
Deflection @30 psi	6	16	-	%
Deflection @40 psi	9	18	-	%
Deflection @50 psi	12	22	-	%
ELECTRICA				
Dielectric breakdown	>16		ASTM D149	KV/mm
Surface resistivity	>10^{11}		ASTM D257	Ohm
Volume resistivity	>10^{10}		ASTM D257	Ohm-m
THERMAL				
Thermal Conductivity	1.5		ASTM D5470	W/m*K
Thermal impedance@10 psi	1.24		ASTM D5470	℃-In^2/W
Thermal impedance@30 psi	1.18		ASTM D5470	℃-in^2/W
Thermal impedance@50 psi	1.16		ASTM D5470	℃-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.