

# 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 easy 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 <sup>3</sup>
Hardness	15	ASTM D2240	Shore A
Application temperature	-60~200	-	°C
<b>COMPRESSION</b>			
Deflection @10 psi	10	-	%
Deflection @20 psi	13	-	%
Deflection @30 psi	16	-	%
Deflection @40 psi	18	-	%
Deflection @50 psi	22	-	%
<b>ELECTRICAL</b>			
Dielectric breakdown	>16	ASTM D149	KV/mm
Surface resistivity	>10 <sup>10</sup>	ASTM D257	Ohm
Volume resistivity	>10 <sup>11</sup>	ASTM D257	Ohm-m
<b>THERMAL</b>			
Thermal Conductivity	1.5	ASTM D5470	W/m*K
Thermal impedance@10 psi	1.24	ASTM D5470	°C-in <sup>2</sup> /W
Thermal impedance@30 psi	1.18	ASTM D5470	°C-in <sup>2</sup> /W
Thermal impedance@50 psi	1.16	ASTM D5470	°C-in <sup>2</sup> /W
<b>FLAME RATING</b>			
UL Flammability class	V-0	UL94	-

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