

# PK605

## Low Oil-Bleeding Thermal Conductive Gel

LiPOLY PK605 is a 6.0 W/m\*K gap filler designed to offer the combination of high thermal conductivity, ease of manufacture and economic pricing needed for today's most demanding 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. PK605 is also UL 94V-0 approved and REACH and RoHS compliant.

### Features-

- Thermal conductivity:6.0W/m\*K
- Low thermal impedance
- Naturally tacky for ease of manufacture
- High breakdown voltage
- UL 94V-0 qualified

### 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	PK605	TEST METHOD	UNIT
Color	Red	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	3.2	ASTM D792	g/cm <sup>3</sup>
Hardness	60	ASTM D2240	Shore OO
Application temperature	-60~180	-	°C
COMPRESSION@1.0mm			
Deflection @10 psi	8	ASTM D5470 modify	%
Deflection @20 psi	12	ASTM D5470 modify	%
Deflection @30 psi	14	ASTM D5470 modify	%
Deflection @40 psi	17	ASTM D5470 modify	%
Deflection @50 psi	19	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	8	ASTM D149	KV/mm
Surface resistivity	>10 <sup>11</sup>	ASTM D257	Ohm
Volume resistivity	>10 <sup>10</sup>	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	6.0	ASTM D5470	W/m*K
Thermal impedance@10psi	0.37	ASTM D5470	°C-in <sup>2</sup> /W
Thermal impedance@30psi	0.32	ASTM D5470	°C-in <sup>2</sup> /W
Thermal impedance@50psi	0.26	ASTM D5470	°C-in <sup>2</sup> /W
FLAME RATING			
UL Flammability class	V-0	UL94	-

### Oil Bleeding-

Size 30\*30mm<sup>2</sup>  
 Thickness 1.0mm  
 Compression 50%  
 Temperature 25°C  
 Time 120h

