

# **PK700**

## **Low Oil-Bleeding Thermal Conductive Gel**

LiPOLY PK700 is a thermally conductive gap filler. With a thermal conductivity of 7.0 W/m\*K and a low thermal impedance, PK700 is suitable for a wide range 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. PK700 is also UL 94V-0 approved and REACH and RoHS.

#### Features-

- •Thermal conductivity:7.0W/m\*K
- Low thermal impedance
- ·High dielectric breakdown voltage
- Designed for manufacture
- Naturally tacky

#### **Typical Applications-**

- Notebook computers
- Heat pipe assemblies
- •TV hardware
- •Wireless communication hardware
- •High speed mass storage drives
- •Set top box
- •IP CAM

### **Specifications-**

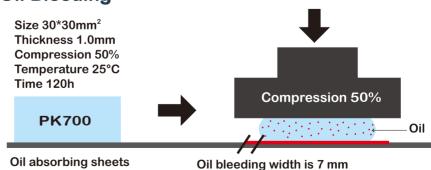
- Sheet form
- Die-cut parts



#### **Typical Properties-**

PROPERTY	PK700	TEST METHOD	UNIT
Color	Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	3.3	ASTM D792	g/cm³
Hardness	55	<b>ASTM D2240</b>	Shore OO
Application temperature	-60~180	-	°C
COMPRESSION@1.0mm			
Deflection @10 psi	9	ASTM D5470 m	odify %
Deflection @20 psi	14	ASTM D5470 m	odify %
Deflection @30 psi	19	<b>ASTM</b> D5470 m	odify %
Deflection @40 psi	23	ASTM D5470 m	odify %
Deflection @50 psi	26	<b>ASTM</b> D5470 m	odify %
ELECTRICAL			
Dielectric breakdown	8	ASTM D149	KV/mm
Surface resistivity	>1011	ASTM D257	Ohm
Volume resistivity	>10 <sup>10</sup>	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	7.0	<b>ASTM D5470</b>	W/m*K
Thermal impedance@10psi	0.32	<b>ASTM D5470</b>	°C-in²/W
Thermal impedance@30psi	0.25	<b>ASTM D5470</b>	°C-in²/W
Thermal impedance@50psi	0.21	<b>ASTM D5470</b>	°C-in²/W
FLAME RATING			
UL Flammability class	V-0	UL94	-

### Oil Bleeding-



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