

# PK223

## Thermal Conductive Gel

LiPOLY PK223 is a material for gap filling. The thermal conductivity is 2.0W/m\*K. The hardness is Shore 00/30 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:2.0W/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	PK223		TEST METHOD	UNIT
Color	White		Visual	-
Surface tack 2-side/1-side	2		-	
Thickness	0.5~5.0		ASTM D374	mm
Density	2.1		ASTM D792	g/cm <sup>3</sup>
Hardness	30		ASTM D2240	Shore 00
Application temperature	-60~200		-	°C
COMPRESSION	1.0mm	2.0mm		
Deflection @10 psi	18	32	-	%
Deflection @20 psi	24	45	-	%
Deflection @30 psi	30	52	-	%
Deflection @40 psi	35	58	-	%
Deflection @50 psi	38	62	-	%
ELECTRICA				
Dielectric breakdown	>14		ASTM D149	KV/mm
Surface resistivity	>10 <sup>10</sup>		ASTM D257	Ohm
Volume resistivity	>10 <sup>10</sup>		ASTM D257	Ohm-m
THERMAL				
Thermal Conductivity	2		ASTM D5470	W/m*K
Thermal impedance@10 psi	0.84		ASTM D5470	°C-in <sup>2</sup> /W
Thermal impedance@30 psi	0.77		ASTM D5470	°C-in <sup>2</sup> /W
Thermal impedance@50 psi	0.70		ASTM D5470	°C-in <sup>2</sup> /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.