

PK700

Thermal Conductive Gel Pad

LiPOLY PK700 is a material designed for gap filling. The thermal conductivity is 7.0 W/m*K. The hardness is Shore OO/55 with high flexibility, high compressibility, high insulating, great self-adhesive, which can cover the tolerance of design making it very stable. It also offers customized shape molding service.

FEATURES

- / Thermal conductivity: 7.0 W/m*K
- / Naturally tacky for ease of manufacture
- / Low thermal impedance
- / Available in a range of thicknesses

TYPICAL APPLICATION

/ Notebook computer

- / Heat pipe assemblies
- / Memory modules
- / TV hardware
- / Automotive electronics
- / Mobile devices
- / High speed mass storage drives
- / Set-top box
- / IP CAM
- / 5G base station & infrastructure / EV electric vehicle

SPECIFICATIONS

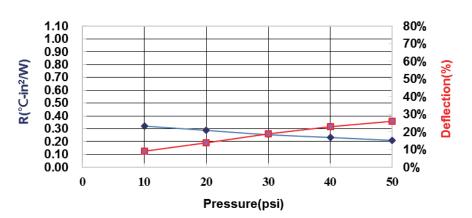
/ Roll form / Sheet form / Die-cut parts



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	ASTM D2240	Shore OO	
Application temperature	-60~180	-	°C	
ROHS & REACH	Compliant	-	-	
COMPRESSION@1.0mm				
Deflection @10 psi	9	ASTM D5470 modify	%	
Deflection @20 psi	14	ASTM D5470 modify	%	
Deflection @30 psi	19	ASTM D5470 modify	%	
Deflection @40 psi	23	ASTM D5470 modify	%	
Deflection @50 psi	26	ASTM D5470 modify	%	
ELECTRICAL				
Dielectric breakdown	12	ASTM D149	KV/mm	
Surface resistivity	>1011	ASTM D257	Ohm	
Volume resistivity	>1010	ASTM D257	Ohm-m	
THERMAL				
Thermal conductivity	7.0	ASTM D5470	W/m*K	
Thermal impedance@10 psi	0.321	ASTM D5470	°C-in²/W	
Thermal impedance@20 psi	0.288	ASTM D5470	°C-in²/W	
Thermal impedance@30 psi	0.254	ASTM D5470	°C-in²/W	
Thermal impedance@40 psi	0.233	ASTM D5470	°C-in²/W	
Thermal impedance@50 psi	0.210	ASTM D5470	°C-in²/W	
1 0.01				

Thermal Resistance vs. Pressure vs. Deflection



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