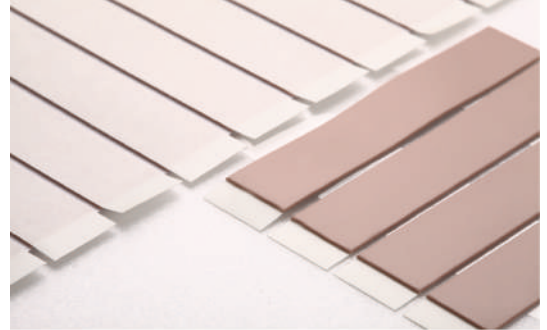


N700A/B

Non-Silicone Thermal Conductive Pad

LiPOLY N700A/B is made by non-silicon resin material, it's low-molecular-weight siloxanes with non-volatile, can avoid the electrical contact problem. N700 is flexible and with great thermal conduction, makes the thermal resistance as low as possible. The thermal conductivity is 1.5~3.0W/m*K. It's suitable for optical and sensitive electric components. 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: 1.5/3.0 W/m*K
- It's made by non-silicon resin materials
- low-molecular-weight siloxanes with non-volatile
- Low contact thermal resistance
- With electrical Insulation
- Outstanding thermal conductivity
- Qualified for UL94V-0
- Applicable to optical and sensitive electric components

Typical Applications-

- HDDS
- Optical appliance

Specifications-

- Sheet form
- Die-cut parts

PROPERTY	N700A		N700B		TEST METHOD	UNIT
Color	Gray		Red		Visual	-
Surface tack 2-side/1-side	2		2		-	-
Thickness	0.5~5.0		0.5~5.0		ASTM D374	mm
Density	2.2		2.6		ASTM D792	g/cm ³
Hardness	60		60		ASTM D2240	Shore 00
Application temperature	-60~125		-60~125		-	°C
Tensile Strength.	20		20		ASTM D412	psi
Elongation	40		30		ASTM D412	%
COMPRESSION	1.0mm	3.0mm	1.0mm	3.0mm		
Deflection @10 psi	10	46	27	55	-	%
Deflection @20 psi	26	67	42	75	-	%
Deflection @30 psi	43	79	51	82	-	%
Deflection @40 psi	52	84	58	86	-	%
Deflection @50 psi	64	88	63	89	-	%
ELECTRICAL						
Dielectric breakdown	>10		>10		ASTM D149	kV/mm
Surface resistivity	>10 ¹¹		>10 ¹¹		ASTM D257	Ohm
Volume resistivity	>10 ¹⁰		>10 ¹⁰		ASTM D257	Ohm-m
THERMAL						
Thermal Conductivity	1.5		3		ASTM D5470	W/m*K
Thermal impedance@10 psi	0.708		0.392		ASTM D5470	°C-in ² /W
Thermal impedance@20 psi	0.445		0.236		ASTM D5470	°C-in ² /W
Thermal impedance@30 psi	0.293		0.169		ASTM D5470	°C-in ² /W
Thermal impedance@40 psi	0.225		0.127		ASTM D5470	°C-in ² /W
Thermal impedance@50 psi	0.182		0.101		ASTM D5470	°C-in ² /W
FLAME RATING						
UL Flammability class	V-0		V-0		UL94	-

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