LiPOLY®
SHIU LI TECHNOLOGY CO.,LTD

AS400-s

Ultra Low Oil-Bleed Thermal Conductive Gel Pad

LiPOLY AS400-s is a material designed for gap filling. The thermal conductivity is 4.0 W/m*K. The hardness is Shore OO/45, with high flexibility and compressibility. AS400-s has ultra-low oil bleeding properties, which helps reduce pollutants from silicon oil, keeping electronic components clean.

FEATURES

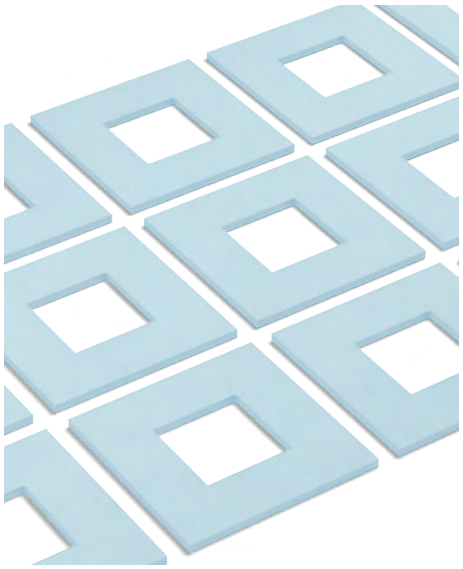
/ Thermal conductivity:4.0 W/m*K
/ High compressibility
/ Low oil-bleeding
/ Naturally tacky and high resilience

TYPICAL APPLICATION

/ Notebook computers
/ Heat pipe assemblies
/ TV hardware
/ Wireless communication hardware
/ High speed mass storage drives
/ Set top box
/ IP CAM
/ 5G base station & infrastructure
/ EV electric vehicle

SPECIFICATIONS

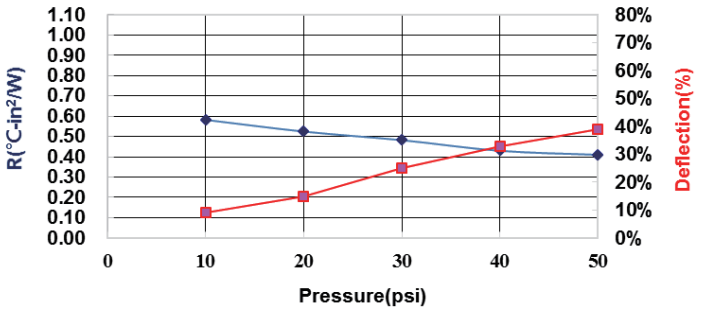
/ Sheet form
/ Die-cut parts



TYPICAL PROPERTIES

PROPERTY	AS400-s	TEST METHOD	UNIT
Color	Blue	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	2.6	ASTM D792	g/cm³
Hardness	45	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	15	ASTM D5470 modify	%
Deflection @30 psi	25	ASTM D5470 modify	%
Deflection @40 psi	33	ASTM D5470 modify	%
Deflection @50 psi	39	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	12	ASTM D149	KV/mm
Surface resistivity	$>10^{11}$	ASTM D257	Ohm
Volume resistivity	$>10^{10}$	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	4.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.582	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	0.525	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.483	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.431	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.411	ASTM D5470	°C-in²/ W

Thermal Impedance vs. Pressure vs. Deflection



OIL BLEEDING

/ Size 30*30mm²
/ Thickness 1.0mm
/ Compression 50%
/ Temperature 25°C
/ Time 120h