

# **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

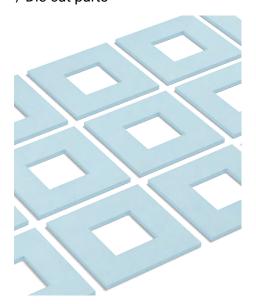
#### **■ TYPICAL APPLICATION**

- / 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

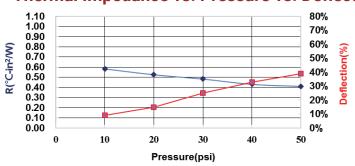
/ Die-cut parts



#### **■ 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	>1011	ASTM D257	Ohm
Volume resistivity	>1010	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

Oil Absorbing Sheet

1mm oil bleed width

Note: All specifications provided by LiPOLY are subject to change without notice. The test methods used by LiPOLY are based on the TIM Tester method and ASTM D5470 test method. These test methods are used as the definition standards for LiPOLY. Property values provided in this document are not for product specifications or guaranteed. This document does not guarantee the performance and quality required for the purchaser's specific purpose. The purchaser needs to evaluate and verify the safety before using the material. We strongly recommend the purchaser pre-test the product and verify the performance of the product pro