

# AS200-s

## Ultra Low Oil-Bleed Thermal Conductive Gel Pad

LiPOLY AS200-s is a material designed for gap filling. The thermal conductivity is 2.0 W/m\*K. The hardness is Shore OO/35, with high flexibility and compressibility. AS200-s has ultra-low oil bleeding properties, which helps reduce pollutants from silicon oil, keeping electronic components clean.

### FEATURES

- / Thermal conductivity: 2.0 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

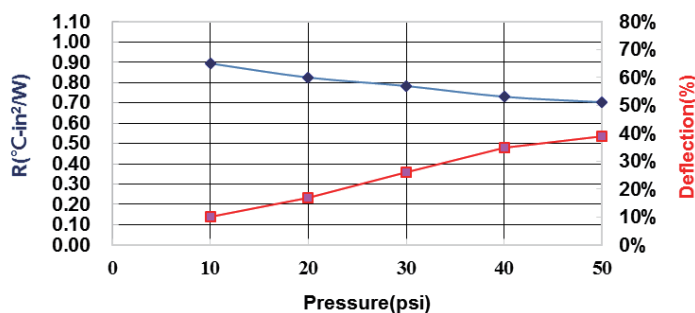
### SPECIFICATIONS

- / Sheet form
- / Die-cut parts

### TYPICAL PROPERTIES

PROPERTY	AS200-s	TEST METHOD	UNIT
Color	Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	2.2	ASTM D792	g/cm <sup>3</sup>
Hardness	35	ASTM D2240	Shore OO
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	10	ASTM D5470 modify	%
Deflection @20 psi	17	ASTM D5470 modify	%
Deflection @30 psi	26	ASTM D5470 modify	%
Deflection @40 psi	35	ASTM D5470 modify	%
Deflection @50 psi	39	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	12	ASTM D149	KV/mm
Surface resistivity	>10 <sup>10</sup>	ASTM D257	Ohm
Volume resistivity	>10 <sup>11</sup>	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	2.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.892	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@20 psi	0.824	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@30 psi	0.783	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@40 psi	0.731	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@50 psi	0.704	ASTM D5470	°C-in <sup>2</sup> / W

### Thermal Impedance vs. Pressure vs. Deflection



### OIL BLEEDING

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

