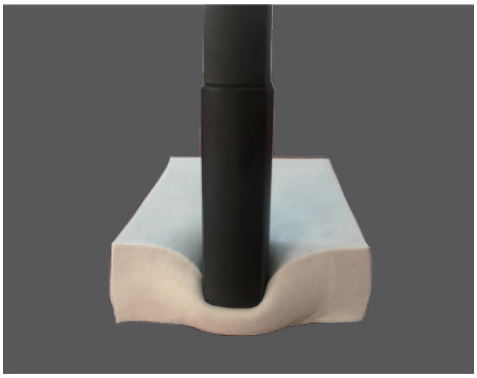
AS200

Ultra Low Oil-Bleeding Thermally Conductive Gel

LiPOLY AS200 is a low-bleed silicone-based gap filler pad used for the cooling of components which may be sensitive to silicone out-gassing. With a thermal conductivity of 2.0 W/m*K, a hardness of 30 (Shore 00) and UL 94V-0 approval this product is ideally suited for many thermal management applications.



Features-

- Thermal conductivity: 2.0 W/m*K
- Ultra soft
- High compressibility
- Low oil-bleed
- Naturally tacky for ease of manufacturing

Typical Applications-

- Notebook computers
- Heat pipe assemblies
- TV hardware
- Wireless communication hardware
- High speed mass storage drives
- Set-top box • IP CAM

Specifications-

- Sheet form
- Die-cut parts

Typical Properties-

PROPERTY	AS200		TEST METHOD	UNIT
Color	Greyish white		Visual	-
Surface tack 2-side/1-side	2		-	-
Thickness	0.5~12		ASTM D374	mm
Density	2.2		ASTM D792	g/cm^3
Hardness	30		ASTM D2240	Shore A
Application temperature	-60~180		-	℃
COMPRESSION	**1.0mm**	**2.0mm**		
Deflection @10 psi	5	12	-	%
Deflection @20 psi	17	23	-	%
Deflection @30 psi	26	33	-	%
Deflection @40 psi	35	40	-	%
Deflection @50 psi	39	44	-	%
ELECTRICAL				
Dielectric breakdown	>13		ASTM D149	KV/mm
Surface resistivity	>10^{11}		ASTM D257	Ohm
Volume resistivity	>10^{10}		ASTM D257	Ohm-m
THERMAL				
Thermal Conductivity	2		ASTM D5470	W/m*K
Thermal impedance@10 psi	1.01		ASTM D5470	℃-in^2/W
Thermal impedance@20 psi	0.92		ASTM D5470	℃-in^2/W
Thermal impedance@30 psi	0.84		ASTM D5470	℃-in^2/W
Thermal impedance@40 psi	0.75		ASTM D5470	℃-in^2/W
Thermal impedance@50 psi	0.70		ASTM D5470	℃-in^2/W
FLAME RATING				
UL Flammability class	V-0		UL94	-

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

AS400

Ultra Low Oil-Bleeding Thermally Conductive Gel

LiPOLY AS400 is a low-bleed silicone-based gap filler pad used for the cooling of components which may be sensitive to silicone out-gassing. With a thermal conductivity of 4.0 W/m*K, a hardness of 40 (Shore 00) and UL 94V-0 approval this product is ideally suited for many thermal management applications.

Features-

- Thermal conductivity: 4.0 W/m*K
- Ultra soft
- High compressibility
- Low oil-bleed
- Naturally tacky for ease of manufacturing

Typical Applications-

- Notebook computers
- Heat pipe assemblies
- TV hardware
- Wireless communication hardware
- High speed mass storage drives
- Set-top box • IP CAM

Specifications-

- Sheet form
- Die-cut parts

Typical Properties-

PROPERTY	AS400		TEST METHOD	UNIT
Color	Blue		Visual	-
Surface tack 2-side/1-side	2		-	-
Thickness	0.5~12		ASTM D374	mm
Density	2.6		ASTM D792	g/cm³
Hardness	40		ASTM D2240	Shore A
Application temperature	-60~180		-	℃
COMPRESSION	1.0mm	2.0mm		
Deflection @10 psi	8	25	-	%
Deflection @20 psi	18	36	-	%
Deflection @30 psi	26	45	-	%
Deflection @40 psi	33	52	-	%
Deflection @50 psi	39	57	-	%
ELECTRICAL				
Dielectric breakdown	>13		ASTM D149	KV/mm
Surface resistivity	$>10^{11}$		ASTM D257	Ohm
Volume resistivity	$>10^{10}$		ASTM D257	Ohm-m
THERMAL				
Thermal Conductivity	4		ASTM D5470	W/m*K
Thermal impedance@10 psi	0.623		ASTM D5470	℃-in²/W
Thermal impedance@20 psi	0.551		ASTM D5470	℃-in²/W
Thermal impedance@30 psi	0.496		ASTM D5470	℃-in²/W
Thermal impedance@40 psi	0.451		ASTM D5470	℃-in²/W
Thermal impedance@50 psi	0.414		ASTM D5470	℃-in²/W
FLAME RATING				
UL Flammability class	V-0		UL94	-

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