

# S282-s

## Exceptionally Soft Thermal Conductive Gel Pad

LiPOLY S282-s is a thermally conductive pad designed for gap filling. The thermal conductivity is 2.5 W/m\*K. Using fiberglass reinforced layer and great self-adhesive which can fit closely with non-flat heat sinks to increase the contact area. S282-s is an excellent insulating material with characteristics of low stress damped vibration and shock absorption.

### FEATURES

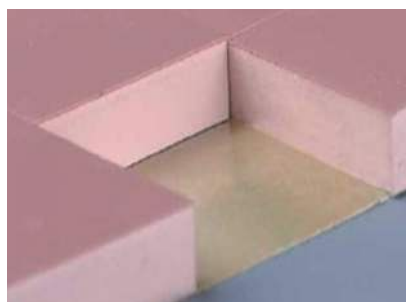
- / Thermal conductivity: 2.5 W/m\*K
- / Designed for manufacturing
- / High dielectric breakdown
- / Shock and vibration absorber
- / Good mechanical strength
- / Fiberglass reinforced

### TYPICAL APPLICATION

- / Between a component and heat sink
- / Flat-panel displays
- / LED, HDDs, DVDs
- / Heat pipe assemblies
- / Memory modules
- / Power supplies

### SPECIFICATIONS

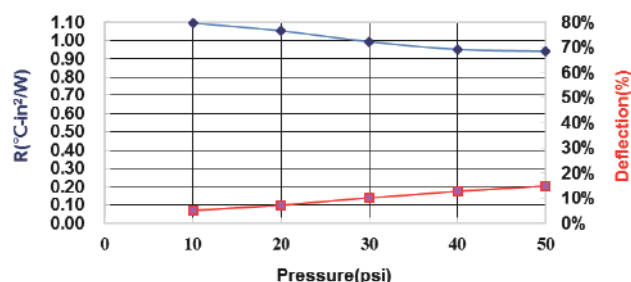
- / Sheet form
- / Die-cut parts



### TYPICAL PROPERTIES

PROPERTY	S282-s	TEST METHOD	UNIT
Color	Pink	Visual	-
Surface tack 2-side/1-side	1	-	-
Reinforced layer	Fiberglass	-	-
Thickness	Customized	ASTM D374	mm
Density	2.6	ASTM D792	g/cm <sup>3</sup>
Hardness	18	ASTM D2240	Shore OO
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
<b>COMPRESSION@1.0mm</b>			
Deflection @10 psi	5	ASTM D5470 modify	%
Deflection @20 psi	7	ASTM D5470 modify	%
Deflection @30 psi	10	ASTM D5470 modify	%
Deflection @40 psi	13	ASTM D5470 modify	%
Deflection @50 psi	15	ASTM D5470 modify	%
<b>ELECTRICAL</b>			
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
<b>THERMAL</b>			
Thermal conductivity	2.5	ASTM D5470	W/m*K
Thermal impedance@10 psi	1.094	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@20 psi	1.052	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@30 psi	0.993	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@40 psi	0.952	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@50 psi	0.941	ASTM D5470	°C-in <sup>2</sup> / W

### Thermal Resistance vs. Pressure vs. Deflection



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