

# S282

## Thermal Conductive Pad

LiPOLY S282 is a thermally conductive interface pad. With a thermal conductivity of 1.7 W/m\*K and a fiberglass reinforcement layer. S282 is designed for robust manufacturing operations. In addition to a superior dielectric breakdown voltage, S282 provides excellent stress and vibration damping.

### Features-

- Thermal conductivity: 1.7 W/m\*K
- Designed for manufacturing
- High dielectric breakdown
- Shock and vibration absorber
- Good mechanical strength
- Fiberglass reinforced
- UL 94V-0 qualified

### Typical Applications-

- 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	TEST METHOD	UNIT
Color	Pink	Visual	-
Surface tack 2-side/1-side	1	-	-
Reinforced layer	Fiberglass	-	-
Thickness	Customized	ASTM D374	mm
Density	2.1	ASTM D792	g/cm <sup>3</sup>
Hardness	4	ASTM D2240	Shore A
Application temperature	-60~180	-	°C
COMPRESSION@1.0mm			
Deflection @10 psi	3	ASTM D5470 modify	%
Deflection @20 psi	6	ASTM D5470 modify	%
Deflection @30 psi	10	ASTM D5470 modify	%
Deflection @40 psi	15	ASTM D5470 modify	%
Deflection @50 psi	18	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	15	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	1.7	ASTM D5470	W/m*K
Thermal impedance@10psi	1.77	ASTM D5470	°C-in <sup>2</sup> /W
Thermal impedance@30psi	1.69	ASTM D5470	°C-in <sup>2</sup> /W
Thermal impedance@50psi	1.64	ASTM D5470	°C-in <sup>2</sup> /W
FLAME RATING			
UL Flammability class	V-0	UL94	-

