

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-

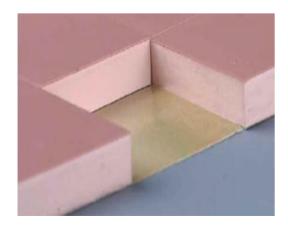
- Thermal conductivity: 1.7 W/m*K
- Designed for manufacturing
- High dielectric breakdown
- · Shock and vibration absorber
- · Good mechanical strength
- Fiberglass reinforced
- UL 94V-0 qualified

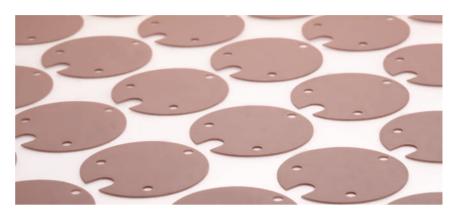
Typical Applications-

- · 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/cm³
Hardness	4	ASTM D2240	Shore A
Application temperature	-60~180	-	°C
COMPRESSION@1.0mm			
Deflection @10 psi	3	ASTM D5470 m	odify %
Deflection @20 psi	6	ASTM D5470 m	odify %
Deflection @30 psi	10	ASTM D5470 m	odify %
Deflection @40 psi	15	ASTM D5470 m	odify %
Deflection @50 psi	18	ASTM D5470 m	odify %
ELECTRICAL			
Dielectric breakdown	15	ASTM D149	KV/mm
Surface resistivity	>10 ¹⁰	ASTM D257	Ohm
Volume resistivity	>10 ¹¹	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	1.7	ASTM D5470	W/m*K
Thermal impedance@10psi	1.77	ASTM D5470	°C-in²/W
Thermal impedance@30psi	1.69	ASTM D5470	°C-in²/W
Thermal impedance@50psi	1.64	ASTM D5470	°C-in²/W
FLAME RATING			
UL Flammability class	V-0	UL94	-

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 under the purchaser's specific conditions. Liability and use of the product are the responsibility of the end user. LiPOLY makes no warranty as to the suitability, merchantability, or non-infringement of any LiPOLY material or product for any specific or general uses. LiPOLY shall not be liable for incidental or consequential damages of any kind. All LiPOLY products are sold in accordance with the LiPOLY Terms and Conditions in effect at the time of purchase and a copy of which will be furnished upon request. All rights reserved, including LiPOLY trademarks or registered trademarks of LiPOLY or its affiliates. Statements concerning possible or suggested uses made herein shall not be relied upon or be constructed as a guaranty of patent infringement. Copyright 2019 LiPOLY.