

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
- / 5G base station & infrastructure
- / EV electric vehicle

SPECIFICATIONS

/ Roll form / 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/cm³
Hardness	18	ASTM D2240	Shore OO
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
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	%
ELECTRICAL			
Dielectric breakdown	12	ASTM D149	KV/mm
Surface resistivity	>1010	ASTM D257	Ohm
Volume resistivity	>1011	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	2.5	ASTM D5470	W/m*K
Thermal impedance@10 psi	1.094	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	1.052	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.993	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.952	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.941	ASTM D5470	°C-in²/W

Thermal Resistance vs. Pressure vs. Deflection



Note: 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 ourpose. The protest represents the product and verify the performance of the product tares' specific conditions. Liability and use of the product tare 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 orconsequential 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 inpluts 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 LiPOLY