

# **PK605**

## **Thermal Conductive Gel Pad**

LiPOLY PK605 is a material designed for gap filling. The thermal conductivity is 6.0 W/m\*K. The hardness is Shore 00/60 with high flexibility, high compressibility, high insulating, great self-adhesive, which can cover the tolerance of design making it very stable. It also offers customized shape molding service.

#### FEATURES

- / Thermal conductivity: 6.0 W/m\*K
- / Naturally tacky for ease of manufacture
- / Low thermal impedance
- / Available in a range of thicknesses

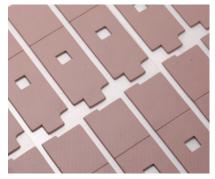
## TYPICAL APPLICATION

## / Notebook computers

- / Heat pipe assemblies
- / Memory modules
- / TV hardware
- / Automotive electronics
- / Mobile devices
- / High speed mass storage drives
- / Set-top box
- / IP CAM
- / 5G base station & infrastructure / EV electric vehicle

## SPECIFICATIONS

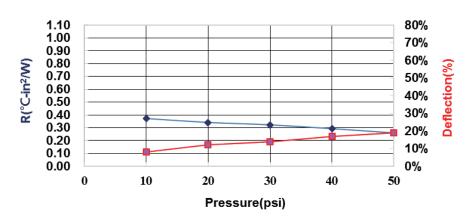
/ Roll form / Sheet form / Die-cut parts



## TYPICAL PROPERTIES

PROPERTY	PK605	TEST METHOD	UNIT
Color	Red	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	3.2	ASTM D792	g/cm³
Hardness	60	ASTM D2240	Shore OO
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	8	ASTM D5470 modify	%
Deflection @20 psi	12	ASTM D5470 modify	%
Deflection @30 psi	14	ASTM D5470 modify	%
Deflection @40 psi	17	ASTM D5470 modify	%
Deflection @50 psi	19	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	12	ASTM D149	KV/mm
Surface resistivity	>1011	ASTM D257	Ohm
Volume resistivity	>1010	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	6.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.371	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	0.341	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.323	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.294	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.262	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 methods. These test methods are used as the definition standards for LiPOLY Note: All specifications provided by LIPOLY are subject to change without notice. Ine test memory used by LIPOLY are based on the IIM Tester method and ASI M US4/U test method. These test methods are used as the definition standards to LIPOLY. Property values provided in this document are not for product specifications or guarantee. This document does not guarantee the performance and quality required for the purchaser's specific progress. 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 specific trongent and and as IM US4/U test methods are used as the definition standards to LIPOLY makes no warranty as to the suitability, mon-infringement of any LIPOLY material or product for any specific or general uses. LIPOLY ball 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 purchases 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 2024 LIPOLY.