

NT92-s

Non-Silicone Thermal Conductive RF Absorber Pad

LiPOLY NT92-s is a thermally conductive absorber based upon soft magnetic materials dispersed in a non-silicone resin. It has a thermal conductivity of 2.0 W/m*K and dissipates electromagnetic radiation rapidly to mitigate against EMI issues.

FEATURES

- / Thermal conductivity: 2.0 W/m*K
- / Excellent absorption
- characteristics
- / Naturally tacky
- / Reworkable

TYPICAL APPLICATION

- / IC, CPU, MOS, LED, M/B, Heat sink
- / LCD-TV, Notebook PC, PC, Telecom device, Wireless hub
- / DDR II module, DVD applications, Hand-set applications
- / 5G base station & infrastructure
- / EV electric vehicle

SPECIFICATIONS

- / Sheet form
- / Die-cut parts

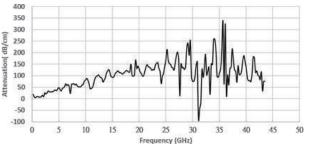
FREQUENCY APPLICATION

2.4 GHz Wi-Fi Router , Bluetooth
3.5 GHz 5G Mobile Networks
5.0 GHz Wi-Fi Router
6.0 GHz Wi-Fi Router
12~18 GHz Low Earth Orbit (LEO) System
28 GHz 5G Mobile Networks
39 GHz 5G Mobile Networks

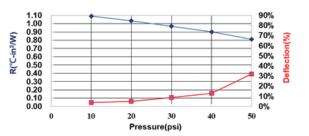
TYPICAL PROPERTIES

PROPERTY	NT92-s	TEST METHOD	UNIT
Color	Dark Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	4.2	ASTM D792	g/cm³
Hardness	60	ASTM D2240	Shore OO
Application temperature	-60~125		°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			'
Deflection @10 psi	4	ASTM D5470 modify	%
Deflection @20 psi	5	ASTM D5470 modify	%
Deflection @30 psi	9	ASTM D5470 modify	%
Deflection @40 psi	13	ASTM D5470 modify	%
Deflection @50 psi	22	ASTM D5470 modify	%
EMI Attenuation @1.0mm			
EMI attenuation@ 2.4 GHz	26	ASTM D4935 modify	dB/cm
EMI attenuation@ 3.5 GHz	30	ASTM D4935 modify	dB/cm
EMI attenuation@ 5.0 GHz	49	ASTM D4935 modify	dB/cm
EMI attenuation@ 6.0 GHz	50	ASTM D4935 modify	dB/cm
EMI attenuation@ 12 GHz	96	ASTM D4935 modify	dB/cm
EMI attenuation@ 18 GHz	116	ASTM D4935 modify	dB/cm
EMI attenuation@ 28 GHz	135	ASTM D4935 modify	dB/cm
EMI attenuation@ 39 GHz ELECTRICAL	113	ASTM D4935 modify	dB/cm
Surface resistivity	>1010	ASTM D257	Ohm
Volume resistivity	>108	ASTM D257	Ohm-m
THERMAL	· · · · · ·		
Thermal Conductivity	2.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	1.091	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	1.034	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.968	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.901	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.812	ASTM D5470	°C-in²/W

Attenuation



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 purpose. The purchaser neets the valuate and verify the starty before using the material. We strongly recommend the purchaser pre-test the product and verify the performance of the product specific or guarantee. The solution of the product specific or guarantee 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 arconsequential damages of any kind. All LiPOLY products are sold in accordance with the LiPOLY trans 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.