

Ti900-s

Thermal Conductive RF Absorber Film

LiPOLY Ti900-s is a thermally conductive absorber based upon soft magnetic materials dispersed in a polymeric resin. It has a thermal conductivity of 1.5 W/m*K and dissipates electromagnetic radiation rapidly to mitigate against EMI issues.

■ FEATURES

/ Thermal conductivity: 1.5 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

■ 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

12~18 GHz Low Earth Orbit (LEO) System

28 GHz 5G Mobile Networks 39 GHz 5G Mobile Networks

■ TYPICAL PROPERTIES

PROPERTY	Ti900-s	TEST METHOD	UNIT
Color	Dark Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	0.2	ASTM D374	mm
Density	3.1	ASTM D792	g/cm³
Hardness	25	ASTM D2240	Shore A
TML	0.04	By LiPOLY	%
Water absorption	0.04	ASTM D570	%
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION			
Deflection @10 psi	4	ASTM D5470 modify	%
Deflection @20 psi	6	ASTM D5470 modify	%
Deflection @30 psi	8	ASTM D5470 modify	%
Deflection @40 psi	10	ASTM D5470 modify	%
Deflection @50 psi	13	ASTM D5470 modify	%
EMI Attenuation			
EMI attenuation@ 2.4 GHz	68.8	ASTM D4935 modify	dB/cm
EMI attenuation@ 3.5 GHz	62.8	ASTM D4935 modify	dB/cm
EMI attenuation@ 5.0 GHz	124.5	ASTM D4935 modify	dB/cm
EMI attenuation@ 6.0 GHz	110.0	ASTM D4935 modify	dB/cm
EMI attenuation@ 12 GHz	276.3	ASTM D4935 modify	dB/cm
EMI attenuation@ 18 GHz	390.7	ASTM D4935 modify	dB/cm
EMI attenuation@ 28 GHz	523.9	ASTM D4935 modify	dB/cm
EMI attenuation@ 39 GHz	452.4	ASTM D4935 modify	dB/cm
ELECTRICAL			
Surface resistivity	>104	ASTM D257	Ohm
Volume resistivity	>104	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	1.5	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.324	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	0.318	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.308	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.300	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.288	ASTM D5470	°C-in²/ W

n Thermal Impedance vs. Pressure vs. Deflection



