

W/mK 1.11

The perfect choice for automated dispensing. A self-leveling injectable compound, Appli-Thane® 7308 maintains its dispensability for over 8 hours. The material can be cured during mass-reflow without disturbing the placement of components, thus eliminating several costly “component level” processing steps. It also eliminates the need for a separate cure cycle. The material meets NASA’s outgassing requirements and cures to a semi-flexible material with low modulus and a very low Tg.

UNCURED	
Work Life @ 25°C	8 hours
Viscosity @ 25°C	Paste
Shelf Life @ -40°C	12 Months
CURE OPTIONS	4 hrs @ 71°C 2 hrs @ 100°C 60 sec @ 200°C
CURED PROPERTIES	Based on cure of 4 hours @ 71°C
Color	Red
Shore A Hardness	86
Glass Transition Temp (C)	-34
Density (g/cc)	2.3
Lap Shear 2024T3 Clad (psi)	300
Tensile Strength (psi)	400
Peel Strength (lb/in.)	4
Cleavage Strength (lb/in width)	165
Tensile Modulus (psi)	1,200
Compressive Modulus (psi)	3,250
Elongation (%)	40
ELECTRICAL PROPERTIES	Based on cure of 4 hours @ 71°C
Dielectric Constant	7.3 @ 10 kHz 6.3 @ 100 kHz 5.07 @ 1 MHz
Dissipation Factor	0.121 @ 10 kHz 0.07 @ 100 kHz 0.042 @ 1 MHz
Dielectric Strength (volts/mil)	650
Volume Resistivity (ohm-cm)	1.0E 14@500 VDC
THERMAL PROPERTIES	Based on cure of 4 hours @ 71°C
CTE below Tg (ppm/°C)	50
CTE above Tg (ppm/°C)	120
Glass Transition Temp (°C)	-34
Operating Temp. Range (°C)	-100 to 125
Thermal Conductivity (W/mK)	1.11
OUTGASSING PROPERTIES	Based on cure of 4 hours @ 71°C
TML (%)	0.21
CVCM (%)	0.01
WVR (%)	0.1
ACOUSTIC PROPERTIES	
Velocity (m/s)	1,771
Impedance (MRayles)	4.062
Loss (dB/cm-MHz)	-14.85
Density (g/cc)	2.30

KEY FEATURES

High Thermal Conductivity

Mass-reflow Curable

Electrically Insulative

Semi-flexible

Superior Thermal Cycling

Hydrolytic Stability

Ideal for Electrical Potting

Very Long Pot Life

Perfect for Automated Dispensing

Low Glass Transition Temperature

Low Modulus

Meets NASA Outgassing Requirements

Self Leveling

Solvent Resistant

Re-workable at Ambient Temperature

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