

A flowable, high thermal conductivity urethane

Ideal for aerospace applications as it meets NASA's outgassing requirements. The cured material's ability to not crack or harm bonded rigid components during thermal cycling is a major plus. Appli-Thane® 7300 is also used in manufacturing and automated dispensing applications due to its 4-hour pot life. Provides best-in-class thermal conductivity for applications requiring aggressive heat dissipation of components.

UNCURED	
Work Life	4 hours @ 25°C
Viscosity	Paste @ 25°C
Shelf Life	6 months @ -40°C 9 months @ -60°C
CURE OPTIONS	2 hours @ 96°C 4 hours @ 72°C 2 weeks @ 25°C
CURED PROPERTIES	Based on cure of 2 hours @ 96°C
Color	Blue
Shore A Hardness	95
Shore D Hardness	45
Glass Transition Temp (°C)	-40
Density (g/cc)	2.8
Lap Shear 2024T3 Clad (psi)	500
Tensile Strength (psi)	450
Tensile Modulus (psi)	9,500
Compressive Strength (psi)	1,400
Compressive Modulus (psi)	14,500
Elongation (%)	5
Poisson's Ratio	0.38
ELECTRICAL PROPERTIES	Based on cure of 2 hours @ 96°C
Dielectric Constant	16 @ 10 kHz 14 @ 100 kHz 11 @ 1 MHz
Dissipation Factor	0.00 @ 10 kHz 0.07 @ 100 kHz 0.18 @ 1 MHz
Dielectric Strength (volts/mil)	650
Volume Resistivity (ohm-cm)	1.0E 13 @ 500 VDC
THERMAL PROPERTIES	Based on cure of 2 hours @ 96°C
CTE below Tg (ppm/°C)	25
CTE above Tg (ppm/°C)	75
Glass Transition Temp (°C)	-40
Operating Temp. Range (°C)	-100 to 160
Thermal Conductivity (W/mK)	2.5
OUTGASSING PROPERTIES	Based on cure of 2 hours @ 96°C

KEY FEATURES

- High Thermal Conductivity
- Meets NASA Outgassing Requirements
- Electrically Insulative
- Semi-flexible
- Superior Thermal Cycling
- Hydrolytic Stability
- Ideal for Electrical Potting
- Injectable
- Long Pot Life
- Low Glass Transition Temperature
- Low Modulus
- Self Leveling
- Solvent Resistant

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TML (%)	0.19
CVCM (%)	0.03
WVR (%)	0.04
OUTGASSING PROPERTIES	Based on cure of 2 weeks @ 25°C
TML (%)	0.12
CVCM (%)	0.01
WVR (%)	0.03
ACOUSTIC PROPERTIES	
Velocity (m/s)	2,145
Impedance (MRayls)	6.28
Loss (dB/cm-MHz)	-16.5
Density (g/cc)	2.8