

## 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.

<b>UNCURED</b>	
Work Life	4 hours @ 25°C
Viscosity	Paste @ 25°C
Shelf Life	6 months @ -40°C    9 months @ -60°C
<b>CURE OPTIONS</b>	2 hours @ 96°C    4 hours @ 72°C    2 weeks @ 25°C
<b>CURED PROPERTIES</b>	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
<b>ELECTRICAL PROPERTIES</b>	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 VDA
<b>THERMAL PROPERTIES</b>	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
<b>OUTGASSING PROPERTIES</b>	Based on cure of 2 hours @ 96°C
TML (%)	0.19
CVCM (%)	0.03
WVR (%)	0.04
<b>OUTGASSING PROPERTIES</b>	Based on cure of 2 weeks @ 25°C
TML (%)	0.12
CVCM (%)	0.01

### 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

### Chat with a specialist:

[service@appli-tec.com](mailto:service@appli-tec.com)

603-685-0500 ext. 526

[www.appli-tec.com](http://www.appli-tec.com)

7 Industrial Way, Unit 1, Salem, NH 03079

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Rev F

2/3/2022

WVR (%)	0.03
<b>ACOUSTIC PROPERTIES</b>	
Velocity (m/s)	2,145
Impedance (MRayles)	6.28
Loss (dB/cm-MHz)	-16.5
Density (g/cc)	2.8