

Appli-Thane® 7300

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
Dissipation Factor	0.00 @ 10 kHz
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
	-40
Glass Transition Temp (°C)	
Glass Transition Temp (°C) Operating Temp. Range (°C)	-100 to 160
• • • •	-100 to 160 2.5

High Thermal Conductivity Meets NASA Outgassing Requirements Electrically Insulative Semi-flexible Superior Thermal Cycling Hydrolytic Stability deal for Electrical Potting njectable Long Pot Life Low Glass Transition Temperature Low Modulus Self Leveling Solvent Resistant
Electrically Insulative Semi-flexible Superior Thermal Cycling Hydrolytic Stability deal for Electrical Potting njectable Long Pot Life Low Glass Transition Temperature Low Modulus Self Leveling
Semi-flexible Superior Thermal Cycling Hydrolytic Stability deal for Electrical Potting njectable Long Pot Life Low Glass Transition Temperature Low Modulus Self Leveling
Superior Thermal Cycling Hydrolytic Stability deal for Electrical Potting njectable ong Pot Life ow Glass Transition Temperature ow Modulus Self Leveling
Hydrolytic Stability deal for Electrical Potting njectable ong Pot Life ow Glass Transition Temperature ow Modulus Self Leveling
deal for Electrical Potting njectable ong Pot Life ow Glass Transition Temperature ow Modulus Self Leveling
njectable ong Pot Life ow Glass Transition Temperature ow Modulus Self Leveling
ong Pot Life ow Glass Transition Temperature ow Modulus Self Leveling
ow Glass Transition Temperature ow Modulus Gelf Leveling
ow Modulus Self Leveling
Self Leveling
_
Solvent Resistant
RoHS Compliant

Chat with a specialist:

service@appli-tec.com 603-685-0500 ext. 526 www.appli-tec.com

7 Industrial Way, Unit 1, Salem, NH 03079

The data contained herein is provided for informational purposes only and are believed to be reliable. APPLI-TEC does not guarantee suitability of this product for any resultant application or freedom from patent infringement. Furthermore, APPLI-TEC disclaims any liability for incidental and consequential damages of any kind including but not limited to lost profits.

Rev H 3/11/2024

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