APPLI-TEC
THERMOSET ADHESIVE SOLUTIONS
ISO 9001 / AS9100 CERTIFIED

# Appli-Thane® 7330

## 2.5 W/mK - A two-part flowable urethane with excellent thermal conductivity

Appli-Thane® 7330 is a two-part thermally conductive polyurethane adhesive. As it meets NASA's outgassing requirements, it's ideal for electrical potting and aerospace applications. The cured material will not crack or harm bonded rigid components during thermal cycling.

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| **UNCURED** | |
| Work Life | 4 hours @ 25°C |
| Viscosity, Mixed | Paste @ 25°C |
| Viscosity, Part A | Paste @ 25°C |
| Viscosity, Part B | Paste @ 25°C |
| Shelf Life | 6 months @ -20°C |
| Mix Ratio | 100A to 48.3B Parts by Weight |
| **CURE OPTIONS** | 2 hours @ 96°C  4 hours @ 72°C<br>2 weeks @ 25°C |
| **CURED PROPERTIES** | Based on cure of 2 hours @ 96°C |
| Color | Blue |
| Shore A Hardness | 95 |
| Shore D Hardness | 50 |
| Glass Transition Temp (°C) | -36 |
| Density (g/cc) | 2.89 |
| Lap Shear 2024T3 Clad (psi) | 445 |
| Tensile Strength (psi) | 612 |
| Tensile Modulus (psi) | 10,700 |
| Compressive Strength (psi) | 1,510 |
| Compressive Modulus (psi) | 9,990 |
| Elongation (%) | 6.6 |
| Poisson's Ratio | 0.36 |
| Linear Shrinkage, % | 0.36 |
| **ELECTRICAL PROPERTIES** | Based on cure of 2 hours @ 96°C |
| Dielectric Constant | 5.76 @ 1 MHz |
| Dissipation Factor | 0.031 @ 1 MHz |
| Dielectric Strength (volts/mil) | 430 |
| Volume Resistivity (ohm-cm) | 1.0E 13 @ 500 VDC |
| **THERMAL PROPERTIES** | Based on cure of 2 hours @ 96°C |
| CTE below Tg (ppm/°C) | 39 |
| CTE above Tg (ppm/°C) | 79 |
| Glass Transition Temp (°C) | -36 |
| Operating Temp. Range (°C) | -100 to 160 |

### 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
- Solvent Resistant

**Chat with a specialist:**

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**Rev A** **5/15/2025**

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|---|---|
| Thermal Conductivity (W/mK) | 2.5 |
| **OUTGASSING PROPERTIES** | Based on cure of 2 hours @ 96°C |
| TML (%) | 0.14 |
| CVCM (%) | 0.01 |
| WVR (%) | 0.03 |
| **ACOUSTIC PROPERTIES** | |
| Velocity (m/s) | 2,270 |
| Impedance (MRayls) | 6.56 |
| Loss (dB/cm-MHz) | -21.4 |
| Density (g/cc) | 2.89 |