APPLI-TEC
THERMOSET ADHESIVE SOLUTIONS
ISO 9001 / AS9100 CERTIFIED

Appli-Thane® 7810

0.25 W/mK

The free-flowing version of our 7800 material, Appli-Thane 7810 is ideal for coating applications. Both 7810 and 7800 are often used together for "dam and fill": use the higher viscosity 7800 to create the dam, then 7810 to fill in. Appli-Thane 7810 features good flow and wetting, is easily reworkable, and meets NASA's low outgassing requirements.

UNCURED	
Work Life @ 25°C	1.5 hours
Viscosity @ 25°C	6,400 cPs
Thixotropic Index	1.0
Shelf Life	6 Months @ -40°C 9 Months @ -60°C
CURE OPTIONS	2.5 hours @ 66°C 72 hours @ 25°C
CURED PROPERTIES	Based on cure of 2.5 hours @ 66°C
Color	Clear
Shore A Hardness	50
Glass Transition Temp (°C)	-74
Density (g/cc)	0.96
Lap Shear 2024T3 Clad (psi)	400
Tensile Modulus (psi)	735
Elongation (%)	50
Tensile Strength at Break (psi)	240
Fungus Resistance	Non-nutrient
ELECTRICAL PROPERTIES	Based on cure of 2.5 hours @ 66°C
Dielectric Constant	2.85 @ 1 MHz
Dissipation Factor	0.05 @ 1 MHz
Dielectric Strength (volts/mil)	1,120
Volume Resistivity (ohm-cm)	2.0E 13 @ 500 VDC
Arc Resistance (seconds)	123
THERMAL PROPERTIES	Based on cure of 2.5 hours @ 66°C
CTE below Tg (ppm/°C)	80
CTE above Tg (ppm/°C)	200
Glass Transition Temp (°C)	-74
Operating Temp. Range (°C)	-100 to 125
Thermal Conductivity (W/mK)	0.25
OUTGASSING PROPERTIES	Based on cure of 2.5 hours @ 66°C
TML (%)	0.38

KEY FEATURES

- Free Flowing
- Electrically Insulative
- Flexible
- Hydrolytic Stability
- Long Pot Life
- Low Glass Transition Temperature
- Low Modulus
- Meets NASA Outgassing Requirements
- Solvent Resistant
- Fungus Resistant
- √ RoHS Compliant

Chat with a specialist:

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Rev K **3/7/2025**

CVCM (%)	0.01
WVR (%)	0.20
ACOUSTIC PROPERTIES	
Velocity (m/s)	1,600
Impedance (MRayls)	1.53
Loss (dB/cm-MHz)	-4.8
Density (g/cc)	0.96