

Key Features

- Free Flowing
- Electrically Insulative
- Flexible
- Hydrolytic Stability
- Long Pot Life
- Low Glass Transition Temperature
- Low Modulus
- Solvent Resistant

Uncured

- Work Life 4 hrs
- Viscosity 4,100 cps
- Shelf Life 6 Months @ < -40° C

Recommended Cure

1.5 hrs. @ 71° C

Other Cure

0.5 hrs. @ 92° C

Cured Properties

Color	Light Amber
Shore A Hardness	65
Glass Transition Temp (° C)	-11
Density (g/cc)	1.1
Lap Shear 2024T3 Clad (psi)	1,000

Electrical Properties

Dielectric Constant	3.8 @ 10 kHz
Dielectric Constant	3.1 @ 100 kHz
Dielectric Constant	2.8 @ 1 MHz
Dissipation Factor	0.08 @ 10 kHz
Dissipation Factor	0.06 @ 100 kHz
Dissipation Factor	0.05 @ 1 MHz
Dielectric Strength (volts/mil)	550
Volume Resistivity (ohm-cm)	1.0E 13 @ 500 VDC

Product Description:

Appli-thane™ 7801 was designed to have 3-4 times longer pot life, half the cure time and 4 times longer shelf life than standard urethane systems. Appli-thane™ 7801 is a 100% solids, toughened, light amber, free flowing polyurethane adhesive compound for advanced electronic assembly. This unfilled compound utilizes capillary flow to draw the adhesive under the component for under fill applications. Appli-thane™ 7801 cures to a flexible state with low modulus and low Glass Transition Temperature (Tg). The cured material's ability to not crack or harm bonded rigid components during thermal cycling is a major plus.

Thermal Properties

CTE below Tg (ppm/°C)	45
CTE above Tg (ppm/°C)	165
Glass Transition Temp (°C)	-11
Operating Temp. Range (°C)	-80 to 125
Thermal Conductivity (W/m°K)	0.2

Acoustic Properties

Velocity (m/s)	1975
Impedance (MRayles)	2.15
Loss (dB/cm-MHz)	-8.75
Density (g/cc)	1.1

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