APPLI-TEC
THERMOSET ADHESIVE SOLUTIONS
ISO 9001 / AS9100 CERTIFIED

5051 Epoxy

A low viscosity, optically clear epoxy

An electrically isolating epoxy compound, 5051 bonds well to most substrates such as metals, glass, ceramics, and most plastics. The material is free flowing, making it ideal for potting and underfill applications.

This product will exotherm if cured at high temperatures in masses greater than 5 grams. Contact Appli-Tec for step cure instructions if curing in larger masses.

UNCURED	
Work Life @ 25°C	8 hours
Mixed Viscosity @ 25°C	320 cPs
Pot Life @ 25°C	4 hours
Shelf Life	12 months @ 25°C (2-part Kits) 12 months @ -40°C (Cryo-Pac®)
Mix Ratio	100A : 34.5B Parts By Weight
CURE OPTIONS	6 hours @ 80°C 8 hours @ 65°C 8 days @ 25°C
CURED PROPERTIES	Based on cure of 6 hours @ 80°C
Color	Clear
Shore D Hardness	83
Glass Transition Temp (°C)	85
Lap Shear 2024T3 Clad (psi)	3,300
Density (g/cc)	1.15
Refractive Index	1.56
Shrinkage Linear (%)	0.2
ELECTRICAL PROPERTIES	Based on cure of 6 hours @ 80°C
Dielectric Constant	3.013 @ 60 Hz 3.052 @ 1k Hz 2.846 @ 100k Hz
Dissipation Factor	0.0061 @ 60 Hz 0.0118 @ 1k Hz 0.0382 @ 100k Hz
Volume Resistivity (ohm-cm)	1.7E 16 @ 500 VDC
THERMAL PROPERTIES	Based on cure of 6 hours @ 80°C
Glass Transition Temp (°C)	85
Degradation Temp. (°C)	250
OUTGASSING PROPERTIES	Based on cure of 6 hours @ 80°C
TML (%)	0.58
CVCM (%)	0.01
WVR (%)	0.26
ACOUSTIC PROPERTIES	Based on cure of 6 hours @ 80°C
Velocity (m/s)	2,645

KEY FEATURES

- Bonds Well to Most Substrates
- Free Flowing
- Low Outgassing
- Wicks Easily Into Tight Spaces
- Long Work Life
- Low Viscosity
- Optically Clear
- User-friendly Packaging

Chat with a specialist:

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Impedance (MRayls)	3.05
Loss (dB/cm-MHz)	-6.2
Density (g/cc)	1.15