APPLI-TEC
THERMOSET ADHESIVE SOLUTIONS
ISO 9001 / AS9100 Certified

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.

UNCURED	
Work Life @ 25℃	8 hours
Mixed Viscosity @ 25℃	320 cPs
Pot Life @ 25℃	4 hours
Shelf Life	12 months @ 25℃ (2-part Kits) 12 months @ -40℃ (Cryo-Pac®)
Mix Ratio	100A : 34.5B Parts By Weight
CURE OPTIONS	6 hours @ 80℃ 8 hours @ 65℃ 8 days @ 25℃
CURED PROPERTIES	Based on cure of 6 hours @ 80℃
Color	Clear
Shore D Hardness	83
Glass Transition Temp (℃)	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℃
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℃
Glass Transition Temp (℃)	85
Degradation Temp. (℃)	250
OUTGASSING PROPERTIES	Based on cure of 6 hours @ 80℃
TML (%)	0.58
CVCM (%)	0.01
WVR (%)	0.26
ACOUSTIC PROPERTIES	Based on cure of 6 hours @ 80℃
Velocity (m/s)	2,645
Impedance (MRayles)	3.05
Loss (dB/cm-MHz)	-6.2
Density (g/cc)	1.15

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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Rev D   **1-24-2022**