APPLI-TEC
THERMOSET ADHESIVE SOLUTIONS

5381 Epoxy

2.9 W/mK — Self leveling, highly thermally conductive, room temperature cure

Designed for potting and bonding applications, 5381 Epoxy combines high thermal conductivity with electrically insulative properties. 5381 can be cured at 25°C.

UNCURED	
Work Life	4 hours @ 25°C
Pot Life	3 hours @ 25°C
Viscosity	44,000 cps @ 25°C
Shelf Life	6 months @ -40°C 12 months @ -60°C
CURE OPTIONS	7 days @ 25°C 2 hours @ 80°C
CURED PROPERTIES	Based on cure of 7 days @ 25°C
Color	Dark Gray
Shore D Hardness	D/90/0
Glass Transition Temp (°C)	32
Density (g/cc)	3.03
Lap Shear 2024T3 Clad (psi)	1,580
Linear Shrinkage (%)	0.05
Tensile Strength (psi)	2,040
Tensile Modulus (psi)	715,000
Poisson's Ratio	0.43
ELECTRICAL PROPERTIES	Based on cure of 7 days @ 25°C
Dielectric Constant	7.1 @ 1 MHz
Dissipation Factor	0.023 @ 1 MHz
Dielectric Strength (volts/mil)	362
Volume Resistivity (ohm-cm)	4.08E+14 @ 500 VDC
THERMAL PROPERTIES	Based on cure of 7 days @ 25°C
Glass Transition Temp (°C)	32
Operating Temp. Range (°C)	-100 to 160
Thermal Conductivity (W/mK)	2.9
OUTGASSING PROPERTIES	Based on cure of 7 days @ 25°C
TML (%)	0.63
CVCM (%)	0.01
WVR (%)	0.04
ACOUSTIC PROPERTIES	
Velocity (m/s)	3,794
Impedance (MRayls)	11.49

KEY FEATURES

- High Thermal Conductivity
- Electrically Insulative
- Meets NASA Outgassing Requirements
- Potting and Bonding Applications
- Injectable
- Long Pot Life
- Self Leveling
- Solvent Resistant
- Room Temperature Cure
- √ RoHS Compliant

Chat with a specialist:

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Loss (dB/cm-MHz)	-10.03
Density (g/cc)	3.03