APPLI-TEC
THERMOSET ADHESIVE SOLUTIONS
ISO 9001 / AS9100 CERTIFIED

5380 Epoxy

3.2 W/mK — Self-leveling, highly thermally conductive

Designed for potting and bonding applications, 5380 combines high thermal conductivity with electrically insulative properties. Dark gray and self-leveling, this epoxy is ideal for electronics applications that require high heat dissipation.

UNCURED	
Work Life	6 hours @ 25°C
Viscosity	44,000 @ 25°C
Shelf Life	6 months @ -40°C 12 months @ -60°C
CURE OPTIONS	2 hours @ 80°C 1 hr @ 120°C
CURED PROPERTIES	Based on cure of 2 hours @ 80°C
Color	Dark Gray
Shore D Hardness	D/90/0
Glass Transition Temp (°C)	20
Density (g/cc)	3.05
Lap Shear 2024T3 Clad (psi)	1775
Linear Shrinkage (%)	0.38
Tensile Strength (psi)	3670
Tensile Modulus (psi)	1,990,000
Compressive Strength (psi)	14,800
Compressive Modulus (psi)	910,000
Poisson's Ratio	0.41
Extractable Ionics, ppm	Chloride: <0.5 Sodium: <0.5 Potassium: <0.3
ELECTRICAL PROPERTIES	Based on cure of 2 hours @ 80°C
Dielectric Constant	6.62 @ 1 MHz
Dissipation Factor	0.012 @ 1 MHz
Dielectric Strength (volts/mil)	480
Volume Resistivity (ohm-cm)	5.3E+14 @ 500 VDC
THERMAL PROPERTIES	Based on cure of 2 hours @ 80°C
CTE below Tg (ppm/°C)	21
CTE above Tg (ppm/°C)	48.3
Glass Transition Temp (°C)	20
Operating Temp. Range (°C)	-100 to 160
Thermal Conductivity (W/mK)	3.2
OUTGASSING PROPERTIES	Based on cure of 2 hours @ 80°C
TML (%)	0.68

KEY FEATURES

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

Chat with a specialist:

service@appli-tec.com
603-685-0500 ext. 526
www.appli-tec.com
7 Industrial Way, Unit 1, Salem, NH 03079

Rev B **6/13/2024**

CVCM (%)	0.04
WVR (%)	0.02
ACOUSTIC PROPERTIES	
Velocity (m/s)	3,965
Impedance (MRayls)	12.11
Loss (dB/cm-MHz)	-10.72
Density (g/cc)	3.05