

3.2 W/mK — High thermal conductivity, electrically insulative

Ideal for potting 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	Paste @ 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
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
CVCM (%)	0.04
WVR (%)	0.02
ACOUSTIC PROPERTIES	
Velocity (m/s)	3,965
Impedance (MRayls)	12.11
Loss (dB/cm-MHz)	-10.72

KEY FEATURES

High Thermal Conductivity

Electrically Insulative

Meets NASA Outgassing Requirements

Ideal for Potting Applications

Injectable

Long Pot Life

Self Leveling

Solvent Resistant

✓ RoHS Compliant

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Rev A

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Density (g/cc)	3.05
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