

4.3 W/mK – Highly thermally conductive, electrically insulative

5390 combines remarkable thermal conductivity with electrically insulative properties. Dark gray and self-leveling, this epoxy is ideal for electronics applications that require intense 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)	3.14
Lap Shear 2024T3 Clad (psi)	1,130
Linear Shrinkage (%)	0.16
ELECTRICAL PROPERTIES	Based on cure of 2 hours @ 80°C
Dielectric Constant	6.78 @ 1 MHz
Dissipation Factor	0.015 @ 1 MHz
Dielectric Strength (volts/mil)	430
Volume Resistivity (ohm-cm)	7.1E+13 @ 500 VDC
THERMAL PROPERTIES	Based on cure of 2 hours @ 80°C
CTE below Tg (ppm/°C)	20.9
CTE above Tg (ppm/°C)	44.3
Glass Transition Temp (°C)	20
Operating Temp. Range (°C)	-100 to 160
Thermal Conductivity (W/mK)	4.3
OUTGASSING PROPERTIES	Based on cure of 2 hours @ 80°C
TML (%)	0.59
CVCM (%)	0.06
WVR (%)	0.06
ACOUSTIC PROPERTIES	
Velocity (m/s)	4,140
Impedance (MRayles)	12.986
Loss (dB/cm-MHz)	-8.92

KEY FEATURES

Very High Thermal Conductivity

Electrically Insulative

Meets NASA Outgassing Requirements

Ideal for Heat Sink Attach

Injectable

Long Pot Life

Self Leveling

Solvent Resistant

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

The data contained herein is provided for informational purposes only and are believed to be reliable. APPLI-TEC does not guarantee suitability of this product for any resultant application or freedom from patent infringement. Furthermore, APPLI-TEC disclaims any liability for incidental and consequential damages of any kind including but not limited to lost profits.

Rev B

10/27/2023

Density (g/cc)	3.14
Extractable Ionics, ppm	Chloride: <0.1 Sodium: <0.5 Potassium: <0.1