APPLI-TEC
THERMOSET ADHESIVE SOLUTIONS
ISO 9001 / AS9100 CERTIFIED

5327 Epoxy

2.6 W/mK — Thermally conductive two-part epoxy

Designed for potting and bonding applications, 5327 Epoxy combines high thermal conductivity with electrically insulative properties. Dark gray and self-leveling, 5327 is ideal for electronics applications that require high heat dissipation. 5327 is offered in room temperature stable two-part packaging — as well as in PMF syringes.

UNCURED	
Work Life	6 hours @ 25°C
Viscosity, Part A, @ 25°C	93,600 cPs
Viscosity, Part B, @ 25°C	7,500 cPs
Viscosity, Mixed, @ 25°C	46,400 cPs
Color, Part A	Dark Gray
Color, Part B	White
Shelf Life, PMF	6 months @ -40°C
Shelf Life, Two-Part Kit	12 months @ 25°C
Mix Ratio A:B	100:41.6 Parts By Weight
CURE OPTIONS	2 hours @ 80°C 1 hour @ 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)	36
Density (g/cc)	2.93
Lap Shear 2024TS Clad (psi)	2,170
Linear Shrinkage (%)	0.33
Tensile Strength (psi)	6,650
Tensile Modulus (psi)	4,420,000
Comprehensive Strength (psi)	18,500
Comprehensive Modulus (psi)	4,880,000
Poisson's Ratio	0.33
Extractable Ionics, ppm	Chloride: <0.005 Sodium: <0.005 Potassium: <0.02
ELECTRICAL PROPERTIES	Based on cure of 2 hours @ 80°C
Dielectric Constant	5.19 @ 1 MHz
Dissipation Factor	0.014 @ 1 MHz
Dielectric Strength (volts/mil)	424
Volume Resistivity (ohm-cm)	6.3E+14 @ 500 VDC
THERMAL PROPERTIES	Based on cure of 2 hours @ 80°C

KEY FEATURES

- High Thermal Conductivity
- Electrically Insulative
- Meets NASA Outgassing Requirements
- Potting and Bonding Applications
- Two-Part Room Temperature Stable Package
- Long Pot Life
- Self-Leveling
- Solvent Reistant
- √ 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 **6/3/2025**

CTE below Tg (ppm/°C)	19.2
CTE above Tg (ppm/°C)	56.8
Glass Transition Temp (°C)	36
Operating Temp. Range (°C)	-100 to 160
Thermal Conductivity (W/mK)	2.6
OUTGASSING PROPERTIES	Based on cure of 2 hours @ 80°C
TML (%)	0.45
CVCM (%)	0.09
WVR (%)	0.03
ACOUSTIC PROPERTIES	
Velocity (m/s)	4,062
Impedance (MRayls)	11.89
Loss (dB/cm-MHz)	-9.03
Density (g/cc)	2.93