

Electrically Conductive, Long Pot Life, and Room Temperature Cure

5230 is a silver filled epoxy combining long pot life and room temperature cure. 5230 features a bio-based curing agent. The material is ideal for bonding applications and can be used as a cold solder for delicate, heat sensitive components. 5230 has a volume resistivity of 0.001 ohm-cm and a thermal conductivity of 1.75W/mK. The epoxy is available in bulk kits and premixed and frozen syringes, and meets NASA's low outgassing requirements.

UNCURED	
Pot Life	90 minutes
Viscosity Part A @ 25°C	Paste
Viscosity Part B @ 25°C	90 cPs
Shelf Life @ -40°C	6 months
Shelf Life @ -60°C	10 months
Shelf Life @ -75°C	24 months
Shelf Life @ 25°C	6 months (Appli-Pac®, Bulk Kit)
Mix Ratio	100A:8.6B Parts By Weight
CURE OPTIONS	2 hours @ 80°C 24 hours @ 25°C 30 minutes @ 100°C
CURED PROPERTIES	Based on cure of 2 hours @ 80°C
Color	Silver
Shore D Hardness	85
Glass Transition Temp (°C)	85
Specific Gravity	3.0
Lap Shear 2024T3 Clad (psi)	1,165
ELECTRICAL PROPERTIES	Based on cure of 2 hours @ 80°C
Volume Resistivity (ohm-cm)	1.0E-3
THERMAL PROPERTIES	Based on cure of 2 hours @ 80°C
Glass Transition Temp (°C)	85
Operating Temp. Range (°C)	-60 to 120
Thermal Conductivity (W/mK)	1.75
Degradation Temp. (°C)	300
OUTGASSING PROPERTIES	Based on cure of 2 hours @ 80°C
TML (%)	0.34
CVCM (%)	<0.01
WVR (%)	0.07

KEY FEATURES

High Electrical Conductivity

NASA Low Outgassing

Low Shrinkage

Room Temperature Cure

Long Pot Life

Bonds to a variety of substrates

Cold Solder

Thermally Conductive

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