

## 2.5 W/mK

A silver-filled, electrically conductive, low outgassing epoxy, Appli-Tec's 5200 is specifically designed to cure with low shrinkage at room temperature or cure quickly at elevated temperatures. The material is ideal for applications such as **electrical bonding, EMI shielding, and room temperature soldering**. 5200 exhibits a high thermal conductivity of 2.5W/mK and a low volume resistivity of 0.002 ohm-cm, delivering excellent thermal and electrical conductivity across the bond line. Appli-Tec 5200 silver epoxy is available in bulk kits or two-part mixer pouches that can be stored at room temperature and mixed on site. We can also pre-mix, test, pre-pack and then flash freeze the material in manual or pneumatic dispense syringes, which are easily thawed at room temperature. The material is listed on NASA's Low Outgassing website.

<b>UNCURED</b>	
Pot Life @ 25°C	30 minutes
Viscosity Part A @ 25°C	Paste
Viscosity Part B @ 25°C	25 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:4.31B Parts By Weight
<b>CURE OPTIONS</b>	2 hours @ 65°C    24 hours @ 25°C 30 minutes @ 100°C
<b>CURED PROPERTIES</b>	Based on cure of 2 hours @ 65°C
Color	Silver
Shore D Hardness	90
Glass Transition Temp (°C)	85
Specific Gravity	2.75
Lap Shear 2024T3 Clad (psi)	1,200
<b>ELECTRICAL PROPERTIES</b>	Based on cure of 2 hours @ 65°C
Volume Resistivity (ohm-cm)	2.0E-3
<b>THERMAL PROPERTIES</b>	Based on cure of 2 hours @ 65°C
Glass Transition Temp (°C)	85
Operating Temp. Range (°C)	-60 to 120
Thermal Conductivity (W/mK)	2.5
Degradation Temp. (°C)	300
<b>OUTGASSING PROPERTIES</b>	Based on cure of 2 hours @ 65°C
TML (%)	0.19
CVCM (%)	0.00
WVR (%)	0.17

### KEY FEATURES

High Electrical Conductivity

Listed on NASA Low Outgassing Website

Low Shrinkage

Room Temperature Cure

### Talk to an engineer:

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