

1.85 W/mK

Appli-Tec 5302 epoxy was designed specifically for potting circuit board connectors. With its 4-hour pot life, the material is ideal for automated dispensing and features controlled flow – making it easy to deposit. 5302 meets NASA's outgassing requirements and has a wide range of curing options. The material bonds well with most substrates.

This product will exotherm if cured at high temperatures in masses greater than 5 grams. Contact Appli-Tec for step cure instructions if curing in larger masses.

Pot Life @ 25°C	UNCURED	
Shelf Life @ -40°C Color Blue Thixotropic Index 1.9 CURE OPTIONS 1 hour @ 120°C 5 minutes @ 150°C CURED PROPERTIES Based on cure of 1 hour @ 120°C Color Dark Tan Shore D Hardness 97 Glass Transition Temp. (°C) 134 Density (g/cc) 2.62 Lap Shear 2024T3 Clad (psi) ELECTRICAL PROPERTIES Volume Resistivity (ohm-cm) THERMAL PROPERTIES Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) Degradation Temp. (°C) OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) 4.001 WVR (%) ACOUSTIC PROPERTIES Velocity (m/s) Impedance (MRayls) Jewa Manuel 1.9 2.5 minutes @ 150°C 5 minutes @ 150°C 2.62 2.500 2.62 2.500 ELECTRICAL PROPERTIES Based on cure of 1 hour @ 120°C OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) 4.0.01 WVR (%) ACOUSTIC PROPERTIES Velocity (m/s) 3.450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz)	Pot Life @ 25°C	4 hours
Color Blue Thixotropic Index 1.9 CURE OPTIONS 1 hour @ 120°C 5 minutes @ 150°C CURED PROPERTIES Based on cure of 1 hour @ 120°C Color Dark Tan Shore D Hardness 97 Glass Transition Temp. (°C) 134 Density (g/cc) 2.62 Lap Shear 2024T3 Clad (psi) 2,500 ELECTRICAL PROPERTIES Volume Resistivity (ohm-cm) 2.13E 16 @500 VDC THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (N/mK) Degradation Temp. (°C) 275 OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) 0.01 WVR (%) 0.04 ACOUSTIC PROPERTIES Velocity (m/s) 3,450 Impedance (MRayIs) 9.03 Loss (dB/cm-MHz) -8.3	Viscosity @ 25°C	125,000 cPs
Thixotropic Index 1.9 CURE OPTIONS 1 hour @ 120°C 5 minutes @ 150°C CURED PROPERTIES Based on cure of 1 hour @ 120°C Color Dark Tan Shore D Hardness 97 Glass Transition Temp. (°C) 134 Density (g/cc) 2.62 Lap Shear 2024T3 Clad (psi) ELECTRICAL PROPERTIES Volume Resistivity (ohm-cm) THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) Degradation Temp. (°C) 275 OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) VVR (%) ACOUSTIC PROPERTIES Velocity (m/s) 1,903 1,900 1,	Shelf Life @ -40°C	12 Months
CURE OPTIONS I hour @ 120°C 5 minutes @ 150°C CURED PROPERTIES Based on cure of 1 hour @ 120°C Color Dark Tan Shore D Hardness 97 Glass Transition Temp. (°C) Lap Shear 2024T3 Clad (psi) ELECTRICAL PROPERTIES Volume Resistivity (ohm-cm) THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) Degradation Temp. (°C) OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) WVR (%) ACOUSTIC PROPERTIES Velocity (m/s) I hour @ 120°C 5 minutes @ 150°C 6 134 1 84 1 85 Velocity (m/s) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3	Color	Blue
CURED PROPERTIES Based on cure of 1 hour @ 120°C Color Dark Tan Shore D Hardness 97 Glass Transition Temp. (°C) Lap Shear 2024T3 Clad (psi) ELECTRICAL PROPERTIES Volume Resistivity (ohm-cm) THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) Degradation Temp. (°C) OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) VVR (%) ACOUSTIC PROPERTIES Velocity (m/s) Impedance (MRayls) Loss (dB/cm-MHz) -8.3	Thixotropic Index	1.9
Color Dark Tan Shore D Hardness 97 Glass Transition Temp. (°C) 134 Density (g/cc) 2.62 Lap Shear 2024T3 Clad (psi) 2,500 ELECTRICAL PROPERTIES Volume Resistivity (ohm-cm) 2.13E 16 @500 VDC THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) Degradation Temp. (°C) 275 OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) <0.01 WVR (%) 0.04 ACOUSTIC PROPERTIES Velocity (m/s) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3	CURE OPTIONS	1 hour @ 120°C 5 minutes @ 150°C
Shore D Hardness 97 Glass Transition Temp. (°C) 134 Density (g/cc) 2.62 Lap Shear 2024T3 Clad (psi) 2,500 ELECTRICAL PROPERTIES Volume Resistivity (ohm-cm) 2.13E 16 @500 VDC THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) Degradation Temp. (°C) 275 OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) <0.01 WVR (%) 0.04 ACOUSTIC PROPERTIES Velocity (m/s) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3	CURED PROPERTIES	Based on cure of 1 hour @ 120°C
Glass Transition Temp. (°C) 134 Density (g/cc) 2.62 Lap Shear 2024T3 Clad (psi) 2,500 ELECTRICAL PROPERTIES PROPERTIES Volume Resistivity (ohm-cm) 2.13E 16 @500 VDC THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) 1.85 Degradation Temp. (°C) 275 OUTGASSING PROPERTIES Based on cure of 1 hour @ 120°C TML (%) 0.07 CVCM (%) <0.01	Color	Dark Tan
Density (g/cc) 2.62 Lap Shear 2024T3 Clad (psi) 2,500 ELECTRICAL PROPERTIES PROPERTIES Volume Resistivity (ohm-cm) 2.13E 16 @500 VDC THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) 1.85 Degradation Temp. (°C) 275 OUTGASSING PROPERTIES Based on cure of 1 hour @ 120°C TML (%) 0.07 CVCM (%) <0.01	Shore D Hardness	97
Lap Shear 2024T3 Clad (psi) 2,500 ELECTRICAL PROPERTIES Volume Resistivity (ohm-cm) 2.13E 16 @500 VDC THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) Degradation Temp. (°C) 275 OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) <0.01 WVR (%) 0.04 ACOUSTIC PROPERTIES Velocity (m/s) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3	Glass Transition Temp. (°C)	134
ELECTRICAL PROPERTIES Volume Resistivity (ohm-cm) 2.13E 16 @500 VDC THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) Degradation Temp. (°C) 275 OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) <0.01 WVR (%) 0.04 ACOUSTIC PROPERTIES Velocity (m/s) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3	Density (g/cc)	2.62
Volume Resistivity (ohm-cm) THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) Degradation Temp. (°C) 275 OUTGASSING PROPERTIES TML (%) CVCM (%) VVR (%) ACOUSTIC PROPERTIES Velocity (m/s) Impedance (MRayls) Loss (dB/cm-MHz) 2.13E 16 @500 VDC 2.13E 16 @500 VDC Based on cure of 1 hour @ 120°C 275 0.04 ACOUSTIC PROPERTIES Velocity (m/s) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3	Lap Shear 2024T3 Clad (psi)	2,500
THERMAL PROPERTIES Based on cure of 1 hour @ 120°C Glass Transition Temp. (°C) 134 Thermal Conductivity (W/mK) Degradation Temp. (°C) 275 OUTGASSING PROPERTIES TML (%) 0.07 CVCM (%) VVR (%) ACOUSTIC PROPERTIES Velocity (m/s) Impedance (MRayls) 1.85 Based on cure of 1 hour @ 120°C 275 0.07 CVCM (%) 0.07 CVCM (%) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3		
Glass Transition Temp. (°C) Thermal Conductivity (W/mK) Degradation Temp. (°C) OUTGASSING PROPERTIES TML (%) CVCM (%) VVR (%) ACOUSTIC PROPERTIES Velocity (m/s) Impedance (MRayls) Loss (dB/cm-MHz) 1.85 1.85 275 Based on cure of 1 hour @ 120°C 275 0.07 CVCM (%) 4.001 4.0	Volume Resistivity (ohm-cm)	2.13E 16 @500 VDC
Thermal Conductivity (W/mK) Degradation Temp. (°C) OUTGASSING PROPERTIES TML (%) CVCM (%) VVR (%) ACOUSTIC PROPERTIES Velocity (m/s) Impedance (MRayls) Loss (dB/cm-MHz) 1.85 275 Based on cure of 1 hour @ 120°C 0.07 <0.01 0.04 4.001 0.04 4.001 0.04 4.001 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.05 0.07 0.09 0	THERMAL PROPERTIES	Based on cure of 1 hour @ 120°C
(W/mK)Degradation Temp. (°C)275OUTGASSING PROPERTIESBased on cure of 1 hour @ 120°CTML (%)0.07CVCM (%)<0.01WVR (%)0.04ACOUSTIC PROPERTIESVelocity (m/s)Velocity (m/s)3,450Impedance (MRayls)9.03Loss (dB/cm-MHz)-8.3	Glass Transition Temp. (°C)	134
OUTGASSING PROPERTIES TML (%) CVCM (%) VVR (%) ACOUSTIC PROPERTIES Velocity (m/s) Impedance (MRayls) Loss (dB/cm-MHz) Based on cure of 1 hour @ 120°C 0.07 CVCM (%) 40.01 40	•	1.85
PROPERTIES TML (%) 0.07 CVCM (%) <0.01	Degradation Temp. (°C)	275
CVCM (%) <0.01 WVR (%) 0.04 ACOUSTIC PROPERTIES Velocity (m/s) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3		Based on cure of 1 hour @ 120°C
WVR (%) 0.04 ACOUSTIC PROPERTIES Velocity (m/s) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3	TML (%)	0.07
ACOUSTIC PROPERTIES Velocity (m/s) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3	CVCM (%)	<0.01
PROPERTIES Velocity (m/s) 3,450 Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3	WVR (%)	0.04
Impedance (MRayls) 9.03 Loss (dB/cm-MHz) -8.3		
Loss (dB/cm-MHz) -8.3	Velocity (m/s)	3,450
	Impedance (MRayls)	9.03
Density (g/cc) 2.62	Loss (dB/cm-MHz)	-8.3
	Density (g/cc)	2.62

High Thermal C	Conductivity
Resistant to Fu Weather	el, Lubricants, Water, and
Bonds Well to I	Most Substrates
Changes Color	When Cured
Snap Cure at 15	50 °C
High Glass Trar	nsition Temperature
High Temperat	ure Resistant
Long Pot Life	
Meets NASA O	utgassing Requirements

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