

Tra-Con Tra-Bond 2248 High Temperature Epoxy Staking Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2248 is a thixotropic, high temperature cure, 100% solids epoxy resin system that provides strong, tough bonds between a wide range of materials (includes metals, glass, ceramics, and many plastics). This adhesive is recommended for bonding applications up to 190°C where good high and low temperature mechanical and electrical properties are required. It is an all liquid system that is easily mixed and handled and applied at room temperature although a final high-temperature cure is REQUIRED for satisfactory bonds. Fully cured TRA-BOND 2248 has excellent impact and thermal shock resistance, low permeability to gases and vapors, and outstanding resistance to water, weather, oxygen and ozone, most petroleum solvents and fuels, mild acids and alkalis, and many other organic and inorganic compounds. This system complies with specification ASTM E-595-90 for NASA outgassing acceptability. An additional post-cure of 2 hours at 125°C is recommended when application temperatures higher than 125°C are anticipated. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2248-High-Temperature-Epoxy-Staking-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	Mixed
Water Absorption	0.0010 %	0.0010 %	After 24 hours
Viscosity	10000 cP @Temperature 25.0 °C	10000 cP @Temperature 77.0 °F	Mixed (sp #4, 12 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	
Tensile Strength, Yield	72.4 MPa	10500 psi	
Elongation at Yield	2.0 %	2.0 %	
Adhesive Bond Strength	17.9 MPa	2600 psi	Lap shear, alum to alum
Izod Impact, Notched	0.278 J/cm	0.520 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C @Temperature 20.0 °C	27.8 µin/in-°F @Temperature 68.0 °F	
Maximum Service Temperature, Air	190 °C	374 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	109 °C	228 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+15 ohm-cm	2.50e+15 ohm-cm	
Dielectric Constant	4.35	4.35	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	14.8 kV/mm	375 kV/in	
Dissipation Factor	0.020	0.020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	120 min	120 min	

Descriptive Properties	Value	Comments
Color	Tan	
Heat Distortion Temperature °C	148	
Mix Ratio, parts by weight	100/19.4	Resin/Hardener
Outgassing, NASA	Passes	

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