Tra-Con Tra-Bond 2211 High Temperature Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2211 is a low viscosity epoxy adhesive system recommended for industrial bonding applications where superior wetting and good mechanical and electrical insulation performance features are required at both low and high temperatures (up to 190°C). This all-liquid formulation contains no solvents, and is easily mixed, handled and applied at room temperature, however a final elevated temperature cure step is REQUIRED for satisfactory bonds. Fully cured TRA-BOND 2211 develops strong, tough bonds for a wide range of materials which includes most metals, glass, ceramics, and many rigid plastics. It has excellent impact and thermal shock resistance, low permeability to gases and vapors, and outstanding resistance to water, weather, oxygen and ozone, most petroleum fuels and lubricants, mild acids and alkalis, and many other organic and inorganic compounds. An additional post-cure of 4 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-2211-High-Temperature-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	Mixed
Viscosity	2000 cP	2000 cP	After mixing
	@Temperature 25.0 °C	@Temperature 77.0 °F	Arter mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	
Tensile Strength, Yield	55.2 MPa	8000 psi	
Elongation at Yield	3.0 %	3.0 %	
Adhesive Bond Strength	7.24 MPa	1050 psi	Lap shear, alum to alum, @ 165°C
	13.8 MPa	2000 psi	Lap shear, alum to alum, @ 125°C
	17.2 MPa	2500 psi	Lap shear, alum to alum, @ 25°C
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	

Thermal Properties	Metric	English	Comments	
Maximum Service Temperature, Air	190 °C	374 °F		
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F		

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+15 ohm-cm	2.50e+15 ohm-cm	



Electrical Properties	Metric 12 ohm-cm	English 2 ohm-cm	Comments
	@Temperature 150 °C	@Temperature 302 °F	
Dielectric Constant	4.2	4.2	
	@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	960 min	16.0 hour	12hrs @ 25°C + 2hrs @ 65°C + 2hrs @ 90°C
Pot Life	300 min	300 min	

Descriptive Properties	Value	Comments
Color	Amber	
Mix Ratio, parts by weight	100/20	Resin/Hardener
Outgassing, NASA	Passes	

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