

Tra-Con Tra-Bond FS163 Medium Viscosity Epoxy/Polyamide Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND FS163 is a medium viscosity polyamide/epoxy adhesive recommended for industrial bonding and sealing applications where toughness, impact resistance, and superior mechanical properties are required. This two-part adhesive is easily mixed and cured at room temperature, and develops strong bonds to most clean, dry material surfaces including most metals, rigid plastics, glass, ceramics, leather, rubber, wood and concrete. Fully cured TRA-BOND FS163 bonds offer good low temperature electrical, mechanical, and impact resistant properties, superior thermal shock resistance, low permeability to gases and vapors, good dimensional stability, and resistance to water, weather, oxygen and ozone, most petroleum products, mild acids and alkalis, and many other chemicals. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FS163-Medium-Viscosity-EpoxyPolyamide-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	30000 cP @Temperature 25.0 °C	30000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	77	77	
Izod Impact, Notched	0.609 J/cm	1.14 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	64.0 µm/m-°C @Temperature 20.0 °C	35.6 µin/in-°F @Temperature 68.0 °F	
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Constant	3.35 @Frequency 1000 Hz	3.35 @Frequency 1000 Hz	
Dielectric Strength	18.1 kV/mm	460 kV/in	

Electrical Properties	Metric	English	Comments
Dielectric Factor	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	75 min	75 min	

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

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