

Tra-Con Tra-Bond 2143D Medium Viscosity Polyamide Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2143D is a medium viscosity 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 2143D 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-2143D-Medium-Viscosity-Polyamide-Epoxy-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
Water Absorption	0.0040 %	0.0040 %	After 24 hours
Viscosity	38000 cP @Temperature 25.0 °C	38000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	77	77	
Adhesive Bond Strength	15.2 MPa	2200 psi	Lap shear, alum to alum, 1 hr @ 65°C
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	
Glass Transition Temp, Tg	65.0 °C	149 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.1 kV/mm	460 kV/in	
Dissipation Factor	0.010	0.010	
	@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	
	1440 - 4320 min	24.0 - 72.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30 min	30 min	100 grams
	60 min	60 min	25 grams

Descriptive Properties	Value	Comments
Color	Amber	
Mix Ratio, parts by weight	100/100	Resin/Hardener
Thixotropic Index	1	
Working Life hours	1.5	25 grams
Working Life minutes	30	100 grams

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China