

Tra-Con Tra-Cast 3101 Encapsulating Adhesive System

Category : Polymer , Thermoset , Epoxy

Material Notes:

TRA-CAST 3101 is an easy-to-use, room temperature cure, rigid, low viscosity, 100% solids (no solvents) epoxy resin and hardener system with excellent mechanical and electrical properties. It is recommended for structural and electronic casting and encapsulating applications that require its excellent wetting and fluidity, good thermal expansion coefficients, and improved thermal shock resistance properties. TRA-CAST 3101 is readily mixed, handled and cured at room temperature, and it adheres to a wide range of materials including most metals, glass, ceramics and many plastics. Fully cured TRA-CAST 3101 is a strong, tough, durable electrical insulator which is also highly resistant to weather, water, gases and vapors, petroleum lubricants and fuels and many mild acids and alkalis. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Cast-3101-Encapsulating-Adhesive-System.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	Mixed
Viscosity	3000 cP @Temperature 25.0 °C	3000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	16.7 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.40e+14 ohm-cm	1.40e+14 ohm-cm	
	8.50e+10 ohm-cm @Temperature 100 °C	8.50e+10 ohm-cm @Temperature 212 °F	
Dielectric Constant	3.9	3.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.2	4.2	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.020	0.020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.020	0.020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Cure Time	360 min	6.00 hour	4 hrs @ 25°C + 2 hrs @ 65°C
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30 min	30 min	

Descriptive Properties	Value	Comments
Color	Tan	
Heat Distortion Temperature °C	85	
Mix Ratio, parts by weight	100/125	Resin/Hardener

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