

Tra-Con Tra-Cast 3113 General Purpose Epoxy Casting Compound

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-CAST 3113 is a low viscosity two-part formulation recommended for general purpose electrical potting and encapsulating applications where the combination of good mechanical thermal and electrical properties are required. It is an all liquid system with excellent flow and wetting characteristics, exhibits superior adhesion to glass, ceramics, most metals, many plastics (including potting shells), and other electronics. materials, contains no solvents, and is easily mixed, handled and cured with minimum shrinkage at room temperatures. The fully cured TRA-CAST 3113 is an electrical insulator with good impact and thermal shock resistance. It is further resistant to water, weather, gases, galvanic action, petroleum fuels and solvents, alcohol, salts and many 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-3113-General-Purpose-Epoxy-Casting-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	4000 cP @Temperature 25.0 °C	4000 cP @Temperature 77.0 °F	Mixed (10 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C	19.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	145 °C	293 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	
	4.00e+14 ohm-cm @Temperature 100 °C	4.00e+14 ohm-cm @Temperature 212 °F	
Dielectric Constant	3.8 @Frequency 100000 Hz	3.8 @Frequency 100000 Hz	

Electrical Properties	^{4.1} Metric	^{4.1} English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.1 kV/mm	510 kV/in	
Dissipation Factor	0.010	0.010	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.010	0.010	
	@Frequency 100000 Hz	@Frequency 100000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30 min	30 min	

Descriptive Properties	Value	Comments
Color	Blue	
Heat Distortion Temperature °C	102	
Mix Ratio, parts by weight	100/105	Resin/Hardener
Thixotropic Index	1.3	5 rpm/50 rpm

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