

Tra-Con Tra-Cast F311 Optically Transparent Semi-Flexible Casting System

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-CAST F311 is a clear, low viscosity epoxy formulation developed for molding, embedding, casting and potting applications where clarity, toughness, long pot-life and superior impact properties are required. It is readily mixed and handled at room temperature, exhibits low shrinkage, and develops strong bonds to most fiber optic, photonic, aerospace and electronic industry materials including glass and glass fibers, ceramics, metals, plastic laminates, and other rigid plastic products. Fully cured TRA-CAST F311 is a clear, almost transparent, semi-flexible electrical insulator with good mechanical impact and shock resistant properties. It is resistant to water, weather, gases, petroleum solvents, fuels and lubricants, salts and salt solutions, mild acids and alkalis, and many other organic and inorganic materials.

Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Cast-F311-Optically-Transparent-Semi-Flexible-Casting-System.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	890 cP @Temperature 25.0 °C	890 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	

Thermal Properties	Metric	English	Comments
CTE, linear	61.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	33.9 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	115 °C	239 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.52	1.52	
Transmission, Visible	98 %	98 %	3200-9000 Å

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.4 kV/mm	390 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	120 - 300 min	2.00 - 5.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	2880 min	48.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	120 min	120 min	

Descriptive Properties	Value	Comments
Color	Transparent, Clear	
Mix Ratio, parts by weight	100/40	Resin/Hardener
Thixotropic Index	1	

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