

Tra-Con Tra-Cast F353 Optically Opaque Casting System

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-CAST F353 is an optically opaque, low viscosity, two-part epoxy system recommended for molding, potting, embedding, encapsulating, sealing and casting applications involving fiber optic, optical, photonic and electronic products. It adheres to optical fibers, optical glass, ceramics, most metals, many plastics (including typical potting shells) and other materials. Although TRA-CAST F353 is an all liquid system with excellent flow and wetting characteristics, it contains no solvents and is easily mixed, handled and cured with minimum shrinkage at room temperature. When fully cured it is an electrical insulator with good impact and thermal shock resistance and is resistant to water, weather, gases, petroleum fuels and solvents, 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-F353-Optically-Opaque-Casting-System.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	6000 cP @Temperature 25.0 °C	6000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Izod Impact, Notched	0.198 J/cm	0.370 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	19.4 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	140 °C	284 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.20e+16 ohm-cm	4.20e+16 ohm-cm	
Dielectric Constant	4.1 @Frequency 1000 Hz	4.1 @Frequency 1000 Hz	
Dielectric Strength	19.3 kV/mm	490 kV/in	
	0.010	0.010	

Designation Factor Electrical Properties	Metric @Frequency 1000 Hz	English @Frequency 1000 Hz	Comments
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Processing Properties	Metric	English	Comments
Cure Time	60.0 - 240 min	1.00 - 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	30 min	30 min	

Descriptive Properties	Value	Comments
Color	Black	
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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