

## Tra-Con Tra-Cast 3357 High Temperature Rigid Epoxy Casting System

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

TRA-CAST 3357 is a smooth pouring, low viscosity casting resin system recommended for rigid, large mass potting, encapsulating, laminating, filament-winding and coil embedment applications where the combination of superior mechanical and electrical properties plus good heat resistance is required. This color-coded (light brown and blue) epoxy system is easy to mix and handle at room temperature, however a final high temperature step is REQUIRED for its complete cure. TRA-CAST 3357 has a long pot life and exhibits excellent wetting and adhesion to metals, ceramics, glass and glass products, industrial laminates, most rigid plastics and other high temperature resistant products. This durable electrical insulator maintains its high volume resistivity at elevated temperatures, has a low coefficient of thermal expansion, and is stable over a wide temperature range. In addition, it provides excellent resistance to moisture, gasses, petroleum products, salt solutions, mild acids and alkalis and many other chemical materials. An additional post-cure of 4 hours at 145°C is recommended when application temperatures higher than 145°C are anticipated. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Cast-3357-High-Temperature-Rigid-Epoxy-Casting-System.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Cast-3357-High-Temperature-Rigid-Epoxy-Casting-System.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	Mixed
Viscosity	4100 cP @Temperature 25.0 °C	4100 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	91	91	
Tensile Strength, Yield	61.4 MPa	8900 psi	
Izod Impact, Notched	0.347 J/cm	0.650 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	205 °C	401 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.50e+15 ohm-cm	8.50e+15 ohm-cm	
	2.10e+11 ohm-cm	2.10e+11 ohm-cm	
	@Temperature 180 °C	@Temperature 356 °F	
Dielectric Constant	3.4	3.4	

Electrical Properties	@Frequency 1000 Hz Metric	@Frequency 1000 Hz English	Comments
Dielectric Strength	15.6 kV/mm	395 kV/in	
Dissipation Factor	0.010 @Frequency 1000 Hz	0.010 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	360 min	6.00 hour	2 hrs @ 65°C + 4 hrs @ 130°C
	600 min	10.0 hour	2 hrs @ 65°C + 8 hrs @ 115°C
Pot Life	2880 min	2880 min	(2 days)

Descriptive Properties	Value	Comments
Color	Blue	
Heat Distortion Temperature °C	155	
Mix Ratio, parts by weight	100/50	Resin/Hardener
Thixotropic Index	2.8	5 rpm/50 rpm

## Contact Songhan Plastic Technology Co.,Ltd.

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