

Tra-Con Tra-Cast FS407 Low Viscosity High Temperature Epoxy Casting System

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-CAST FS407 is a low viscosity, solvent-free epoxy casting system recommended for rigid industrial laminating, electrical potting and transformer or coil embedding applications that require the effective combination of superior flow, good adhesion and excellent mechanical and electrical properties over a wide temperature range. This easy-to-use epoxy system has good wetting properties and develops excellent adhesion to glass, metals, ceramics, laminates and other high temperature resistant products. A final 90°C cure step is REQUIRED for complete cure. The fully cured casting system maintains a high volume resistivity, low coefficient of thermal expansion and good dimensional stability over a wide temperature range. In addition, its resistance to electrolysis, galvanic action and leakage offers protection against water, weather, gases and vapors, petroleum lubricants, fuels, salt solutions, mild acids, alkalis and many other organic and inorganic materials. An additional post-cure of 4 hours at 125°C is recommended when application temperatures higher than 125°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-FS407-Low-Viscosity-High-Temperature-Epoxy-Casting-System.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	93	93	
Tensile Strength, Yield	85.5 MPa	12400 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	195 °C	383 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.60e+16 ohm-cm	5.60e+16 ohm-cm	
	6.00e+15 ohm-cm	6.00e+15 ohm-cm	
	@Temperature 65.0 °C	@Temperature 149 °F	
	4.3	4.3	

Dielectric Constant Electrical Properties	Metric @Frequency 1000 Hz	English @Frequency 1000 Hz	Comments
Dielectric Strength	19.3 kV/mm	490 kV/in	
Dissipation Factor	0.010 @Frequency 1000 Hz	0.010 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	960 min	16.0 hour	12hrs @ 25°C + 2hrs @ 65°C + 2 hrs @ 90°C
Pot Life	240 min	240 min	

Descriptive Properties	Value	Comments
Color	Black	
Mix Ratio, parts by weight	100/9	Resin/Hardener

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China