

Tra-Con Tra-Cast 3143 Fire Retardant Epoxy Casting Compound

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-CAST 3143 has a low viscosity and long pot life. It is certified to the requirements of UL 94 V-0, and is recommended for rigid potting, laminating, transformer encapsulating, filament winding and coil embedding applications where a desirable combination of superior mechanical and electrical properties plus fire retardancy and room temperature curing is required. This easy-to-use epoxy system has a low coefficient of thermal expansion, and exhibits excellent wetting and adhesion to most electronic and aerospace-industry materials (metals, glass products, ceramics, industrial laminates and many rigid plastics). Fully cured TRA-CAST 3143 is a durable electrical insulator, dimensionally stable over a wide temperature range, and is resistant to moisture, gases petroleum lubricants and fuels, salts, many mild acids and alkalis, and other organic and inorganic compounds. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Cast-3143-Fire-Retardant-Epoxy-Casting-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	400 cP @Temperature 25.0 °C	400 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	
Dissipation Factor	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	360 min	6.00 hour	4 hrs @ 25°C + 2 hrs @ 65°C

Processing Properties	1440 min Metric	24.0 hour English	Comments
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	180 min	180 min	

Descriptive Properties	Value	Comments
Color	Black	
Mix Ratio, parts by weight	100/15	Resin/Hardener
Thixotropic Index	1.2	5 rpm/50 rpm

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