

3M Scotchcast™ 263 Electrical Epoxy Powder Resin

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

3M Scotchcast Electrical Resin 263 is a widely used, well-known general purpose epoxy powder resin. A one part, green pigmented, rapid heat-curing product, it is designed to provide a continuous, tough moisture and chemical resistant dielectric coating to a variety of substrates. It is intended for use where high temperature cut-through resistant is required. Scotchcast Electrical Resin 263 is manufactured by a fusion blend process, ensuring that each individual particle of powder contains all the components necessary to effect a complete cure and attain stated performance properties. Scotchcast 263 is applied to an object that has been heated to a temperature above the melting point of the resin. On contact with the preheated application surface, the resin melts, flows to a controlled extent, then cures, bonding to the substrate and coalescing into a smooth, continuous, essentially uniform thick coating. It effectively coats flat surfaces and corners, as well as, high point. Uses for Scotchcast 263 include moisture proofing and insulating armatures, stators, buss bars and toroid cores. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotchcast-263-Electrical-Epoxy-Powder-Resin.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	cured; ASTM D794

Mechanical Properties	Metric	English	Comments
Impact Test	11.3 J	8.33 ft-lb	12-15 mil coating 1/8" sandblasted steel panel Gardner 5/8: Radius Impact Tester
Abrasion	0.60	0.60	[g] Removed from 12-15 mil coating; ASMT D4060

Electrical Properties	Metric	English	Comments
Dielectric Strength	39.4 kV/mm	1000 kV/in	12 to 15 mil coating; ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	0.333 min	0.00556 hour	
	@Temperature 232 °C	@Temperature 450 °F	
	0.500 min	0.00833 hour	
	@Temperature 204 °C	@Temperature 399 °F	
	10.0 min	0.167 hour	
	@Temperature 177 °C	@Temperature 351 °F	
	30.0 min	0.500 hour	
	@Temperature 149 °C	@Temperature 300 °F	

Processing Properties	Metric	English	Comments
Gel Time	fixSigDigits: @digits must be between 1 and 12. @digits is: 15 min @Temperature 193 °C	fixSigDigits: @digits must be between 1 and 12. @digits is: 15 min @Temperature 379 °F	hot plate
Shelf Life	24.0 Month @Temperature <=27.0 °C	24.0 Month @Temperature <=80.6 °F	

Descriptive Properties	Value	Comments
Appearance	Green	

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