

3M Scotchcast™ 260 8 G Electrical Epoxy Powder Resin

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

3M Scotchcast Electrical Resin 260 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. Resin 260 is manufactured by a fusion blend process, insuring that each individual particle of powder contains all the components necessary to effect a complete cure and attain stated performance properties. Resin 260 is applied to an object that has been heated to a temperature above the melting point to 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 points. Uses for resin 260 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-260-8-G-Electrical-Epoxy-Powder-Resin.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 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	0.080	0.080	[g]; ASMT D4060

Electrical Properties	Metric	English	Comments
Dielectric Strength	39.4 kV/mm	1000 kV/in	12 to 14 mil coating; ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	0.250 min	0.00417 hour	
	@Temperature 232 °C	@Temperature 450 °F	
	0.583 min	0.00972 hour	
	@Temperature 204 °C	@Temperature 399 °F	
	7.00 min	0.117 hour	
	@Temperature 177 °C	@Temperature 351 °F	
	20.0 min	0.333 hour	
	@Temperature 149 °C	@Temperature 300 °F	
	0.100 - Error in	0.100 - Error in	

Processing Properties	Metric	English	Comments
Gel Time	fixSigDigits: @digits must be between 1 and 12. @digits is: 15 min	fixSigDigits: @digits must be between 1 and 12. @digits is: 15 min	hot plate
	@Temperature 193 °C	@Temperature 379 °F	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature <=27.0 °C	@Temperature <=80.6 °F	

Descriptive Properties	Value	Comments
Appearance	Green	

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