

3M Scotchcast™ 5230N Electrical Epoxy Powder Resin

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

3M Scotchcast Electrical Resin 5230N is a widely used, general purpose epoxy powder resin. A one-part, blue pigmented, rapid heat-curing product, it is designed to provide a continuous, tough moisture and chemical resistant dielectric coating to a variety of substrates.

Scotchcast 5230N 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. Scotchcast 5230 is applied to a cold object via the electrostatic fluid bed process. The negatively charged resin particles are attracted to the grounded object to be coated. Coating thicknesses up to 25 mils may be obtained. Because of its superior charging capabilities Scotchcast 5230N exhibits excellent slot penetration on motor stators and armatures. Uses for Scotchcast 5230N include moisture-proofing and insulating armatures, stator, buss bars and toroid cores. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotchcast-5230N-Electrical-Epoxy-Powder-Resin.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	cured; ASTM D794

Mechanical Properties	Metric	English	Comments
Impact Test	18.1 J	13.3 ft-lb	12-15 mil coating 1/8" sandblasted steel panel Gardner 5/8: Radius Impact Tester
Abrasion	0.11	0.11	[g]; ASMT D4060

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	ASTM E1530

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	3.00 min	0.0500 hour	
	@Temperature 232 °C	@Temperature 450 °F	
	6.00 min	0.100 hour	
	@Temperature 204 °C	@Temperature 399 °F	
	15.0 min	0.250 hour	
	@Temperature 177 °C	@Temperature 351 °F	

Processing Properties	0.150 - 0.640 min Metric	0.150 - 0.640 min English	Comments
	@Temperature 193 °C	@Temperature 379 °F	
Shelf Life	24.0 Month	24.0 Month	
	@Temperature <=16.0 °C	@Temperature <=60.8 °F	

Descriptive Properties	Value	Comments
Appearance	Blue	

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