

## 3M Scotchcast™ 5555 10G Electrical Insulating Epoxy Resin

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

### Material Notes:

3M Scotchcast Electrical Resin 5555 is a one-part, green pigmented, rapid heat curing powder coating. It is designed to provide a continuous, tough moisture and chemical resistant dielectric coating for motor stators, armatures, and transformers. Electrical resin 5555 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 5555 can be applied via cold electrostatic fluid bed, hot venture spray or hot fluid bed dip. When applied electrostatically to a cold part, induction heat is recommended to melt and flow the powder to a tough, moisture and chemical resistant dielectric coating for various electrical devices. When applied to a hot part the resin melts, flows to a controlled extent, the cures, bonding to the substrate and coalescing into a smooth, continuous, essentially uniform, thick dielectric coating. Resin 5555 has two gel times in order to accommodate those applications that need slightly higher flow, or for application equipment that requires rapid curing. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotchcast-5555-10G-Electrical-Insulating-Epoxy-Resin.php](http://www.lookpolymers.com/polymer_3M-Scotchcast-5555-10G-Electrical-Insulating-Epoxy-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in <sup>3</sup>	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

Electrical Properties	Metric	English	Comments
Dielectric Strength	51.2 kV/mm	1300 kV/in	12 to 14 mil coating; ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	1.50 min	0.0250 hour	
	@Temperature 232 °C	@Temperature 450 °F	
	2.50 min	0.0417 hour	
	@Temperature 204 °C	@Temperature 399 °F	
	6.00 min	0.100 hour	
	@Temperature 177 °C	@Temperature 351 °F	
Gel Time	0.150 - Error in fixSigDigits: @digits must be between 1 and 12. @digits is: 15 min	0.150 - Error in fixSigDigits: @digits must be between 1 and 12. @digits is: 15 min	hot plate
	@Temperature 193 °C	@Temperature 379 °F	

Processing Properties	Metric <sup>cnth</sup>	English <sup>nth</sup>	Comments
Shelf Life	@Temperature <=21.1 °C	@Temperature <=70.0 °F	

Descriptive Properties	Value	Comments
Appearance	Green	

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