

3M Scotchcast™ 2123 Re-enterable Insulating Electrical Resin

Category : Other Engineering Material

Material Notes:

3M Scotchcast Re-enterable Electrical Resin 2123 is a soft, two-part polybutadine resin encapsulant designed especially for re-enterable splice protection. It is formulated for virtually every electrical application requiring a soft, re-enterable resin with good handling and performance characteristics. This resin is also used as the insulating material for cable splicing operating at 1000 volts and is rated for continuous use at 90°C with an overload rating of 130°C. It may be stocked to cover most re-enterable resin needs, ending the need for multiple encapsulant inventories. Scotchcast Resin 2123 is formulated with excellent wetting properties and low viscosity. The resin flows well even at low temperatures, filling the closure and minimizing voids. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotchcast-2123-Re-enterable-Insulating-Electrical-Resin.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	0.0738 MPa	10.7 psi	ASTM D412
Elongation at Break	300 %	300 %	ASTM D412
Tear Strength	0.280 kN/m	1.60 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 °C	266 °F	
Minimum Service Temperature, Air	90.0 °C	194 °F	

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 4.00e+11 ohm	>= 4.00e+11 ohm	MS 17000, Section 1182
Dielectric Constant	>= 1.2 @Frequency 100 Hz	>= 1.2 @Frequency 100 Hz	ASTM D150
Dielectric Strength	>= 9.45 kV/mm @Thickness 3.17 mm	>= 240 kV/in @Thickness 0.125 in	ASTM D149
Dissipation Factor	0.00080 @Frequency 100 Hz	0.00080 @Frequency 100 Hz	ASTM D150

Processing Properties	Metric	English	Comments
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Processing Properties	1440 min Metric	24.0 hour English	Comments
	@Temperature 21.0 °C	@Temperature 69.8 °F	
Gel Time	62.0 min	62.0 min	

Descriptive Properties	Value	Comments
Appearance	Amber Translucent	

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