

Abatron AboCast 8103-16 One Part Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

One component system. Less viscous than 8103-11. Information provided by Abatron, Inc. Processing: Shelf life 6-8 months at 25°C (77°F). Heat cured; Pot life 360 min. at 100°C (212°F). Peak exotherm 130°C (265°F). At 100°C (212°F), gels in 3-4 hrs, total cure in 4-6 hrs. At 110-120°C (230-250°F) gels to 0.5-1 hr and total cure in 1-2 hrs.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-8103-16-One-Part-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	1500	1500	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	87	87	
Tensile Strength, Ultimate	47.78 MPa	6930 psi	
Elongation at Break	14.4 %	14.4 %	
Flexural Yield Strength	73.02 MPa	10590 psi	
Flexural Modulus	2.12 GPa	307 ksi	
Compressive Yield Strength	68.95 MPa	10000 psi	
Compressive Modulus	2.21 GPa	321 ksi	
Izod Impact, Notched	0.368 J/cm	0.689 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	62.0 °C	144 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	7.52e+14 ohm-cm	7.52e+14 ohm-cm	
Surface Resistance	4.71e+14 ohm	4.71e+14 ohm	
Dielectric Constant	3.13	3.13	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.4	3.4	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	^{3.46} Metric	^{3.46} English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.0044	0.0044	
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.012	0.012	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.024	0.024	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Pot Life	360 min	360 min	500 g
	@Temperature 360 °C	@Temperature 680 °F	

Descriptive Properties	Value	Comments
Exotherm	130°C	Peak

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