

Abatron AboCast 50-16/AboCure 50-17 Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Information provided by Abatron, Inc. Processing: Shelf life: 12+ months (unmixed). 100/28 ratio. Pot life: 500 g, 29 min. at 70°C (160°F). Exothermic Peak 242°C (468°F). Cures in 1-2 hrs at 80-100°C (175-212°F) + 1-3 hrs at 120-160°C (250-320°F). For large castings: 8-24 hrs at RT until hard + 1-2 hrs at 80°C (175°F) + 1-2 hrs at 100°C (212°F) + 1-2 hrs at 120°C (250°F) + (optional) 1-2 hrs at 150-160°C (300-355°F). Do not demold before 100°C cure cycle.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-50-16AboCure-50-17-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	60	60	
	@Temperature 70.0 °C	@Temperature 158 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	96	96	
Tensile Strength, Ultimate	79.22 MPa	11490 psi	
Elongation at Break	18.2 %	18.2 %	
Flexural Yield Strength	131 MPa	19000 psi	
Flexural Modulus	3.45 GPa	500 ksi	
Compressive Yield Strength	9.928 MPa	1440 psi	
Compressive Modulus	1.86 GPa	270 ksi	
Izod Impact, Notched	0.363 J/cm	0.680 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	102 °C	216 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.22e+16 ohm-cm	>= 1.22e+16 ohm-cm	
Surface Resistance	>= 7.85e+15 ohm	>= 7.85e+15 ohm	
Dielectric Constant	3.41	3.41	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.75	3.75	

Electrical Properties	Metric	English	Comments
	3.78	3.78	
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.0052	0.0052	
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.0092	0.0092	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.031	0.031	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Pot Life	29.0 min	29.0 min	500 g
	@Temperature 70.0 °C	@Temperature 158 °F	

Descriptive Properties	Value	Comments
Exotherm	242°C	Peak

Contact Songhan Plastic Technology Co.,Ltd.

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