

Abatron AboCast 50-11/AboCure 50-17 Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Information provided by Abatron, Inc. Processing: Shelf life: 12+ months (unmixed). 100/27 ratio. Pot life: 500 g, 29 min. at 70°C (160°F). Exothermic Peak 270°C (520°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-50-11AboCure-50-17-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	100	100	
	@Temperature 70.0 °C	@Temperature 158 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	101	101	
Tensile Strength, Ultimate	78.46 MPa	11380 psi	
Elongation at Break	8.5 %	8.5 %	
Flexural Yield Strength	112.7 MPa	16350 psi	
Flexural Modulus	2.48 GPa	360 ksi	
Compressive Yield Strength	107.6 MPa	15610 psi	
Compressive Modulus	1.87 GPa	271 ksi	
Izod Impact, Notched	0.240 J/cm	0.450 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	123 °C	253 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.24e+16 ohm-cm	>= 1.24e+16 ohm-cm	
Surface Resistance	3.53e+15 ohm	3.53e+15 ohm	
Dielectric Constant	3.55	3.55	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.01	4.01	

Electrical Properties	Metric	English	Comments
	4.06	4.06	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.0047	0.0047	
Dissipation Factor	@Frequency 60 Hz	@Frequency 60 Hz	
	0.012	0.012	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.037	0.037	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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

Descriptive Properties	Value	Comments
Exotherm	270°C	Peak

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