

Abatron AboCast 50-11/AboCure 50-12 Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Information provided by Abatron, Inc. Processing: Shelf life: 12+ months (unmixed). 100/13.5 ratio. Pot life: 500 g, 36 min. at 25°C (77°F). Exothermic Peak 265°C (510°F). Hardens in 2-24 hours at RT (faster with heat). Full cure in 1-5 weeks at RT or 1-4 hrs at 80-120°C (175-250°F).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-50-11AboCure-50-12-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	400	400	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	96	96	
Tensile Strength, Ultimate	73.84 MPa	10710 psi	
Elongation at Break	7.5 %	7.5 %	
Flexural Yield Strength	81.56 MPa	11830 psi	
Flexural Modulus	2.79 GPa	405 ksi	
Compressive Yield Strength	98.25 MPa	14250 psi	
Compressive Modulus	2.10 GPa	305 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	84.0 °C	183 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.19e+16 ohm-cm	1.19e+16 ohm-cm	
Surface Resistance	>= 1.19e+16 ohm	>= 1.19e+16 ohm	
Dielectric Constant	3.31	3.31	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.77	3.77	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.84	3.84	

Electrical Properties	@Frequency 60 Hz Metric	@Frequency 60 Hz English	Comments
Dissipation Factor	0.0079	0.0079	
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.017	0.017	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.028	0.028	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Pot Life	36 min	36 min	500 g

Descriptive Properties	Value	Comments
Exotherm	265°C	Peak

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