

Abatron AboCast 50-11/AboCure 50-1 Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Information provided by Abatron, Inc. Processing: Shelf life: 12+ months (unmixed). 100/35 ratio. Pot life: 500 g, 240 min. at 25°C(77°F). Exothermic Peak 190°C (375°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-50-1-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	2300	2300	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	
Tensile Strength, Ultimate	54.33 MPa	7880 psi	
Elongation at Break	14.4 %	14.4 %	
Flexural Yield Strength	78.81 MPa	11430 psi	
Flexural Modulus	1.58 GPa	229 ksi	
Compressive Yield Strength	71.02 MPa	10300 psi	
Compressive Modulus	1.65 GPa	239 ksi	
Izod Impact, Notched	0.235 J/cm	0.440 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	80.0 °C	176 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.42e+15 ohm-cm	2.42e+15 ohm-cm	
Surface Resistance	7.85e+15 ohm	7.85e+15 ohm	
Dielectric Constant	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.06	3.06	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.0078	0.0078	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0089	0.0089	
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.017	0.017	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Pot Life	240 min	240 min	500 g

Descriptive Properties	Value	Comments
Exotherm	190°C	Peak

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