

Abatron AboCast 50-3/AboCure 50-1 Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Data provided by the manufacturer, Abatron, Inc. Honey viscosity, light amber color. Best combination of high strength and versatility for Abatron "VR" Epoxies. Shelf life is 12+ months. Processing: 100/35 ratio. Pot life: 140 min. Peak exothermic temperature is 152°C (306°F).

Cures at RT, but full mechanical, thermal, and corrosion properties are developed by heat cure or postcure. Applications: General purpose for casting, thick coating, bonding, embedding. Information provided by Abatron, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-50-3AboCure-50-1-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	11000 - 14000 cP	11000 - 14000 cP	50-3
	14000 - 20000 cP	14000 - 20000 cP	50-1
	16000 cP @Temperature 25.0 °C	16000 cP @Temperature 77.0 °F	at 100/35 (50-3/50-1) pbw

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	
Tensile Strength, Ultimate	57.22 MPa	8299 psi	
Elongation at Break	3.9 %	3.9 %	
Flexural Yield Strength	66.88 MPa	9700 psi	
Flexural Modulus	2.41 GPa	350 ksi	
Compressive Yield Strength	85.49 MPa	12400 psi	
Compressive Modulus	2.55 GPa	370 ksi	
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 - 110 °C	212 - 230 °F	Heat distortion temperature
	105 °C	221 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.22e+16 ohm-cm	1.22e+16 ohm-cm	

Surface Resistance Electrical Properties	5.50e+15 ohm Metric	5.50e+15 ohm English	Comments
Dielectric Constant	2.99	2.99	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.19	3.19	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.23	3.23	
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.0036	0.0036	
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.0070	0.0070	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.019	0.019	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Pot Life	140 min	140 min	500 g

Descriptive Properties	Value	Comments
Exotherm	152°C	Peak

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