

Abatron AboCast 50-6/AboCure 50-1 Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Data provided by the manufacturer, Abatron, Inc. Motor oil viscosity, light amber color. Peak exothermic temperature is 160°C (320°F). Shelf life is 12+ months.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-50-6AboCure-50-1-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	4000 - 6000 cP	4000 - 6000 cP	50-6
	14000 - 20000 cP	14000 - 20000 cP	50-1
	6500 cP @Temperature 25.0 °C	6500 cP @Temperature 77.0 °F	at 100/35 (50-6/50-1) pbw

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	82	82	
Tensile Strength, Ultimate	46.95 MPa	6810 psi	
Elongation at Break	2.0 %	2.0 %	
Flexural Yield Strength	83.91 MPa	12170 psi	
Flexural Modulus	2.25 GPa	326 ksi	
Compressive Yield Strength	84.74 MPa	12290 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	92.0 °C	198 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.86e+15 ohm-cm	4.86e+15 ohm-cm	
Surface Resistance	7.85e+15 ohm	7.85e+15 ohm	
Dielectric Constant	2.95	2.95	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.24	3.24	
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.0097	0.0097	
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.0097	0.0097	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.021	0.021	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Pot Life	160 min	160 min	500 g

Descriptive Properties	Value	Comments
Exotherm	153°C	Peak

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