

Abatron AboCast 50-6/AboCure 50-17 Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Data provided by the manufacturer, Abatron, Inc. Very low-viscosity; Medium Amber color. Shelf life is 12+ months.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-50-6AboCure-50-17-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	4000 - 6000 cP	4000 - 6000 cP	50-6
	70 cP	70 cP	at 100/28 (50-6/50-17) pbw
	@Temperature 70.0 °C	@Temperature 158 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	109	109	
Tensile Strength, Ultimate	68.95 MPa	10000 psi	
Elongation at Break	3.0 %	3.0 %	
Flexural Yield Strength	105.28 MPa	15270 psi	
Flexural Modulus	2.43 GPa	352 ksi	
Compressive Yield Strength	118.25 MPa	17151 psi	
Compressive Modulus	1.50 GPa	217 ksi	
Izod Impact, Notched	0.235 J/cm	0.440 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	157 °C	315 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.21e+16 ohm-cm	1.21e+16 ohm-cm	
Surface Resistance	>= 7.85e+15 ohm	>= 7.85e+15 ohm	
Dielectric Constant	3.6	3.6	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.01	4.01	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.0057	0.0057	
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.015	0.015	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.34	0.34	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Pot Life	94.0 min	94.0 min	500 g
	@Temperature 70.0 °C	@Temperature 158 °F	

Descriptive Properties	Value	Comments
Exotherm	240°C	Peak

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