

Abatron AboCast 50-3/AboCure 50-17 Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-50-3AboCure-50-17-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	11000 - 14000 cP	11000 - 14000 cP	50-3
	110 cP @Temperature 70.0 °C	110 cP @Temperature 158 °F	at 100/26 (50-3/50-17) pbw

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	106	106	
Tensile Strength, Ultimate	65.84 MPa	9549 psi	
Elongation at Break	4.4 %	4.4 %	
Flexural Yield Strength	93.1 MPa	13500 psi	
Flexural Modulus	2.69 GPa	390 ksi	
Compressive Yield Strength	115.83 MPa	16800 psi	
Compressive Modulus	2.59 GPa	375 ksi	
Izod Impact, Notched	0.310 J/cm	0.581 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 °C	320 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.22e+16 ohm-cm	1.22e+16 ohm-cm	
Surface Resistance	>= 7.85e+15 ohm	>= 7.85e+15 ohm	
Dielectric Constant	3.56 @Frequency 1e+6 Hz	3.56 @Frequency 1e+6 Hz	
	4.06 @Frequency 1000 Hz	4.06 @Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.0054	0.0054	
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.015	0.015	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.036	0.036	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Pot Life	68.0 min	68.0 min	500 g
	@Temperature 70.0 °C	@Temperature 158 °F	

Descriptive Properties	Value	Comments
Exotherm	238°C	Peak

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