

Abatron AboCast 8-3/Abocure 8-3 Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

2-part solvent-free dielectric epoxy casting compound. Processing: 100/50 ratio (pbw); Gel time, 100 g (3.5 oz.): 265 minutes; cures in 16 hours at 25°C (77°F); postcure: 2 hours at 100°C (212°F). Applications: solventless casting, adhesive, and coating.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-8-3Abocure-8-3-Epoxy.php

Physical Properties	Metric	English	Comments
Water Absorption	0.22 %	0.22 %	in 24 hours.
Viscosity Measurement	1600	1600	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	
Tensile Strength, Ultimate	58.61 MPa	8501 psi	
Elongation at Break	5.5 %	5.5 %	
Flexural Strength	94.8 MPa	13700 psi	
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	73.0 °C	163 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.80e+11 ohm-cm	4.80e+11 ohm-cm	
	@Temperature 93.3 °C	@Temperature 200 °F	
	6.20e+14 ohm-cm	6.20e+14 ohm-cm	
	@Temperature 65.6 °C	@Temperature 150 °F	
	3.60e+15 ohm-cm	3.60e+15 ohm-cm	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Dielectric Constant	3.33	3.33	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.017	0.017	

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	Curing time: 16 hours; Postcure: 2 hours/100°C (212°F)

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