

Abatron AboCast 50-3/AboCure 8110-1 Flexible Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive, Flexible

Material Notes:

This epoxy system can achieve flexibility and plasticity without sacrificing adhesive, electrical, structural, and other properties. This compound is a clear (unfilled) basic formulation. Its applications include: bonding, laminating, casting, embedding, electrical potting, impregnating, coating, etc. It can be supplied in several variations to modify viscosity, reaction rate, color, most physical and chemical properties, and with many fillers to meet most requirements.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-50-3AboCure-8110-1-Flexible-Epoxy.php

Physical Properties	Metric	English	Comments
Water Absorption	0.70 %	0.70 %	boil; cured 2 hours @ 93°C
	@Time 7200 sec	@Time 2.00 hour	
Viscosity	550 cP	550 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	cured 2 hrs. @ 93°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	89	89	cured 2 hrs. @ 93°C
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Tensile Strength, Ultimate	89	89	cured 2 hrs. @ 93°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	90	90	cured 2 hrs. @ 93°C
	@Temperature -60.0 °C	@Temperature -76.0 °F	
Elongation at Break	83.08 MPa	12050 psi	cured 2 hours @ 93°C
	86.60 MPa	12560 psi	cured 8 hours @ 93°C
Shear Strength	6.6 %	6.6 %	cured 8 hours @ 93°C
	7.1 %	7.1 %	
	21.2 MPa	3080 psi	Tensile, Al/Al lap joint; cured 2 hours @ 93°C
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	25.4 MPa	3690 psi	Tensile, Al/Al lap joint; cured 2 hours @ 93°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	34.3 MPa	4970 psi	

Mechanical Properties	Metric	English	Comments
	@Temperature 75.0 °C	@Temperature 167 °F	Tensile, Al/Al lap joint; cured 2 hours @ 93 °C

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.80e+9 ohm-cm	9.80e+9 ohm-cm	cured 2 hours @ 93°C
	@Temperature 150 °C	@Temperature 302 °F	
	7.60e+10 ohm-cm	7.60e+10 ohm-cm	cured 2 hours @ 93°C
	@Temperature 112 °C	@Temperature 234 °F	
	1.60e+12 ohm-cm	1.60e+12 ohm-cm	cured 2 hours @ 93°C
	@Temperature 100 °C	@Temperature 212 °F	
	4.40e+16 ohm-cm	4.40e+16 ohm-cm	cured 2 hours @ 93°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Pot Life	16 min	16 min	200 g
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Parts by Weight (pbw)	100	AboCast 50-3
	13	AboCure 8110-1

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