

Abatron AboCast 8110-2/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-8110-2AboCure-8110-1-Flexible-Epoxy.php

Physical Properties	Metric	English	Comments
Water Absorption	4.5 %	4.5 %	immersion; cured 30 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
	4.9 %	4.9 %	immersion; cured 7 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
Viscosity	1600 cP	1600 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	37	37	cured 7 days @ 25°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	58	58	cured 30 days @ 25°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	75	75	cured 7 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	85	85	cured 30 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	89	89	cured 30 days @ 25°C
	@Temperature -60.0 °C	@Temperature -76.0 °F	
	89	89	cured 7 days @ 25°C
	@Temperature -60.0 °C	@Temperature -76.0 °F	
Tensile Strength, Ultimate	16.3 MPa	2360 psi	cured 7 days @ 25°C
	37.9 MPa	5500 psi	
Elongation at Break	39 %	39 %	cured 30 days @ 25°C

Mechanical Properties	Metric	English	Comments
Shear Strength	2.34 MPa	340 psi	Tensile, Al/Al lap joint; cured 7 days @ 25°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	22.2 MPa	3220 psi	Tensile, Al/Al lap joint; cured 7 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	30.8 MPa	4470 psi	Tensile, Al/Al lap joint; cured 7 days @ 25°C
	@Temperature 0.000 °C	@Temperature 32.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.20e+7 ohm-cm	6.20e+7 ohm-cm	cured 30 days @ 25°C
	@Temperature 100 °C	@Temperature 212 °F	
	7.20e+8 ohm-cm	7.20e+8 ohm-cm	cured 7 days @ 25°C
	@Temperature 100 °C	@Temperature 212 °F	
	3.00e+12 ohm-cm	3.00e+12 ohm-cm	cured 7 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	4.90e+13 ohm-cm	4.90e+13 ohm-cm	cured 30 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Pot Life	30 min	30 min	200 g
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Parts by Weight (pbw)	100	AboCast 8110-2
	9.7	AboCure 8110-1

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