

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

Physical Properties	Metric	English	Comments
Water Absorption	3.3 %	3.3 %	immersion; cured 7 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
	3.3 %	3.3 %	immersion; cured 30 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
Viscosity	2260 cP	2260 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	33	33	cured 7 days @ 25°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	42	42	cured 30 days @ 25°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	82	82	cured 7 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	84	84	cured 30 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	86	86	cured 30 days @ 25°C
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	87	87	cured 7 days @ 25°C
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	89	89	cured 7 days @ 25°C
	@Temperature -60.0 °C	@Temperature -76.0 °F	
	89	89	

Mechanical Properties	Metric	English	Comments
	@Temperature -60.0 °C	@Temperature -76.0 °F	cured 30 days @ 25°C
Tensile Strength, Ultimate	45.68 MPa	6625 psi	cured 7 days @ 25°C
	48.6 MPa	7050 psi	cured 30 days @ 25°C
Elongation at Break	12 %	12 %	cured 30 days @ 25°C
	20 %	20 %	cured 7 days @ 25°C
Shear Strength	2.55 MPa	370 psi	Tensile, Al/Al lap joint; cured 7 days @ 25°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	27.2 MPa	3950 psi	Tensile, Al/Al lap joint; cured 7 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	30.3 MPa	4400 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	4.60e+9 ohm-cm	4.60e+9 ohm-cm	cured 30 days @ 25°C
	@Temperature 100 °C	@Temperature 212 °F	
	1.70e+10 ohm-cm	1.70e+10 ohm-cm	cured 7 days @ 25°C
	@Temperature 100 °C	@Temperature 212 °F	
	3.30e+14 ohm-cm	3.30e+14 ohm-cm	cured 30 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	7.10e+14 ohm-cm	7.10e+14 ohm-cm	cured 7 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Pot Life	40 min	40 min	200 g
	@Temperature 25.0 °C	@Temperature 77.0 °F	

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

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