

Abatron AboCast 8110-1/AboCure 8110-3 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-8110-1AboCure-8110-3-Flexible-Epoxy.php

Physical Properties	Metric	English	Comments
Water Absorption	4.4 %	4.4 %	immersion; cured 30 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
	4.4 %	4.4 %	immersion; cured 90 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
	4.9 %	4.9 %	boil; cured 2 hours @ 93°C
	@Time 7200 sec	@Time 2.00 hour	
	5.4 %	5.4 %	immersion; cured 7 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
Viscosity	1390 cP	1390 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	25	25	cured 7 days @ 25°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	30	30	cured 2 hrs. @ 93°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	32	32	cured 7 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	35	35	cured 2 hrs. @ 93°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	62	62	cured 7 days @ 25°C
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	30	30	

Hardness, Shore D Mechanical Properties	Metric @ Temperature 0.000 °C	English @ Temperature 32.0 °F	cured 2 hrs. @ 93°C Comments
	75 @Temperature -60.0 °C	75 @Temperature -76.0 °F	cured 2 hrs. @ 93°C
	76 @Temperature -60.0 °C	76 @Temperature -76.0 °F	cured 7 days @ 25°C
Tensile Strength, Ultimate	0.414 MPa	60.0 psi	cured 7 days @ 25°C
	0.448 MPa	65.0 psi	cured 30 days @ 25°C
	0.483 MPa	70.0 psi	cured 90 days @ 25°C
	0.517 MPa	75.0 psi	cured 2 hours @ 93°C
Elongation at Break	150 %	150 %	cured 2 hours @ 93°C
	155 %	155 %	cured 90 days @ 25°C
	175 %	175 %	cured 30 days @ 25°C
	190 %	190 %	cured 7 days @ 25°C
Shear Strength	1.45 MPa @Temperature 25.0 °C	210 psi @Temperature 77.0 °F	Tensile, Al/Al lap joint; cured 30 days @ 25°C
	2.07 MPa @Temperature 0.000 °C	300 psi @Temperature 32.0 °F	Tensile, Al/Al lap joint; cured 7 days @ 25°C
	2.14 MPa @Temperature 25.0 °C	310 psi @Temperature 77.0 °F	Tensile, Al/Al lap joint; cured 90 days @ 25°C
	3.76 MPa @Temperature 25.0 °C	545 psi @Temperature 77.0 °F	Tensile, Al/Al lap joint; cured 2 hours @ 93°C

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+9 ohm-cm @Temperature 25.0 °C	1.30e+9 ohm-cm @Temperature 77.0 °F	cured 30 days @ 25°C
	2.30e+9 ohm-cm @Temperature 25.0 °C	2.30e+9 ohm-cm @Temperature 77.0 °F	cured 90 days @ 25°C
	3.20e+9 ohm-cm @Temperature 25.0 °C	3.20e+9 ohm-cm @Temperature 77.0 °F	cured 2 hours @ 93°C
	4.90e+9 ohm-cm	4.90e+9 ohm-cm	cured 7 days @ 25°C

Electrical Properties	@Temperature 25.0 °C Metric	@Temperature 77.0 °F English	Comments
Processing Properties	Metric	English	Comments
Pot Life	70 min	70 min	200 g
	@Temperature 25.0 °C	@Temperature 77.0 °F	

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

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