

Abatron AboCast/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-AboCastAboCure-8110-1-Flexible-Epoxy.php

Physical Properties	Metric	English	Comments
Water Absorption	6.2 %	6.2 %	boil; cured 2 hours @ 93°C
	@Time 7200 sec	@Time 2.00 hour	
	11.9 %	11.9 %	immersion; cured 30 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
	12.2 %	12.2 %	immersion; cured 7 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
Viscosity	2570 cP	2570 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	11	11	cured 7 days @ 25°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	21	21	cured 7 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	28	28	cured 30 days @ 25°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	38	38	cured 2 hrs. @ 93°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	40	40	cured 30 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	47	47	cured 2 hrs. @ 93°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	23	23	

Hardness, Shore D Mechanical Properties	Metric @ Temperature 0.000 °C	English @ Temperature 32.0 °F	cured 7 days @ 25°C Comments
	23 @Temperature 0.000 °C	23 @Temperature 32.0 °F	cured 30 days @ 25°C
	60 @Temperature 0.000 °C	60 @Temperature 32.0 °F	cured 2 hrs. @ 93°C
	77 @Temperature -60.0 °C	77 @Temperature -76.0 °F	cured 30 days @ 25°C
	82 @Temperature -60.0 °C	82 @Temperature -76.0 °F	cured 7 days @ 25°C
	83 @Temperature -60.0 °C	83 @Temperature -76.0 °F	cured 2 hrs. @ 93°C
Tensile Strength, Ultimate	0.172 MPa	25.0 psi	cured 7 days @ 25°C
	0.241 MPa	35.0 psi	cured 2 hours @ 93°C
	0.345 MPa	50.0 psi	cured 30 days @ 25°C
	0.758 MPa	110 psi	cured 8 hours @ 93°C
Elongation at Break	68 %	68 %	cured 8 hours @ 93°C
	90 %	90 %	cured 30 days @ 25°C
	160 %	160 %	cured 2 hours @ 93°C
	180 %	180 %	cured 7 days @ 25°C
Shear Strength	3.59 MPa @Temperature 75.0 °C	520 psi @Temperature 167 °F	Tensile, Al/Al lap joint; cured 2 hours @ 93°C
	4.90 MPa @Temperature 25.0 °C	710 psi @Temperature 77.0 °F	Tensile, Al/Al lap joint; cured 2 hours @ 93°C
	13.3 MPa @Temperature 0.000 °C	1930 psi @Temperature 32.0 °F	Tensile, Al/Al lap joint; cured 2 hours @ 93°C

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.90e+7 ohm-cm @Temperature 150 °C	2.90e+7 ohm-cm @Temperature 302 °F	cured 2 hours @ 93°C
	3.00e+7 ohm-cm	3.00e+7 ohm-cm	cured 30 days @ 25°C

Electrical Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
	3.40e+7 ohm-cm	3.40e+7 ohm-cm	cured 2 hours @ 93°C
	@Temperature 100 °C	@Temperature 212 °F	
	3.20e+8 ohm-cm	3.20e+8 ohm-cm	cured 7 days @ 25°C
	@Temperature 100 °C	@Temperature 212 °F	
	6.60e+8 ohm-cm	6.60e+8 ohm-cm	cured 30 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2.60e+9 ohm-cm	2.60e+9 ohm-cm	cured 2 hours @ 93°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	4.30e+9 ohm-cm	4.30e+9 ohm-cm	cured 7 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Pot Life	120 min	120 min	200 g
	@Temperature 25.0 °C	@Temperature 77.0 °F	

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

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