

Abatron AboCast 8110-2/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-8110-2AboCure-8110-3-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	
	4.6 %	4.6 %	immersion; cured 7 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
Viscosity	4.6 %	4.6 %	boil; cured 2 hours @ 93°C
	@Time 7200 sec	@Time 2.00 hour	
	4.7 %	4.7 %	immersion; cured 90 days @ 25°C
	@Time 2.59e+6 sec	@Time 720 hour	
Viscosity	1050 cP	1050 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	15	15	cured 7 days @ 25°C
	@Temperature 75.0 °C	@Temperature 167 °F	
	75	75	cured 2 hrs. @ 93°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	75	75	cured 7 days @ 25°C
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Hardness, Shore D	85	85	cured 7 days @ 25°C
	@Temperature -60.0 °C	@Temperature -76.0 °F	
	85	85	cured 7 days @ 25°C
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	90	90	

Mechanical Properties	Metric @ Temperature -60.0 °C	English @ Temperature -76.0 °F	Comments cured 2 hrs. @ 93°C
	90 @Temperature 0.000 °C	90 @Temperature 32.0 °F	cured 2 hrs. @ 93°C
Tensile Strength, Ultimate	7.93 MPa	1150 psi	cured 30 days @ 25°C
	8.00 MPa	1160 psi	cured 7 days @ 25°C
	13.2 MPa	1910 psi	cured 90 days @ 25°C
	15.2 MPa	2200 psi	cured 2 hours @ 93°C
Elongation at Break	125 %	125 %	cured 30 days @ 25°C
	130 %	130 %	cured 2 hours @ 93°C
	160 %	160 %	cured 7 days @ 25°C
Shear Strength	8.96 MPa @Temperature 0.000 °C	1300 psi @Temperature 32.0 °F	Tensile, Al/Al lap joint; cured 7 days @ 25°C
	12.3 MPa @Temperature 25.0 °C	1780 psi @Temperature 77.0 °F	Tensile, Al/Al lap joint; cured 90 days @ 25°C
	13.82 MPa @Temperature 25.0 °C	2005 psi @Temperature 77.0 °F	Tensile, Al/Al lap joint; cured 30 days @ 25°C
	15.55 MPa @Temperature 25.0 °C	2255 psi @Temperature 77.0 °F	Tensile, Al/Al lap joint; cured 2 hours @ 93°C

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.50e+11 ohm-cm @Temperature 25.0 °C	3.50e+11 ohm-cm @Temperature 77.0 °F	cured 30 days @ 25°C
	5.30e+11 ohm-cm @Temperature 25.0 °C	5.30e+11 ohm-cm @Temperature 77.0 °F	cured 90 days @ 25°C
	7.50e+11 ohm-cm @Temperature 25.0 °C	7.50e+11 ohm-cm @Temperature 77.0 °F	cured 2 hours @ 93°C
	1.10e+12 ohm-cm @Temperature 25.0 °C	1.10e+12 ohm-cm @Temperature 77.0 °F	cured 7 days @ 25°C

Processing Properties	Metric	English	Comments
	20 min	20 min	

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

Descriptive Properties	Value	Comments
Parts by Weight (pbw)	100	AboCast 8110-2
	13	AboCure 8110-3

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