

Abatron AboCast/AboCure 8109-13

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Liquid hardener version of AboCast/AboCure 8109-11. Processing: 100/23 pbw; Potlife: 3-5 h/20°C (68°F), 1-3 h/40°C (105°F), 0.5-1 h/60°C (140°F); mix at RT; cures in: 30 mins/60°C (140°F), 45 min/100°C (212°F), 30 mins/140°C (285°F), 15 min+1-3h/180°C (355°F). Applications: Potting and laminating.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-13.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	
Water Absorption	0.30 - 0.40 %	0.30 - 0.40 %	(60x10X4 mm bar) after 1 hour at 100°C (212°F)
	0.40 - 0.50 %	0.40 - 0.50 %	(60x10X4 mm bar) after 10 days at 20°C (77°F)
Viscosity	1000 - 2000 cP	1000 - 2000 cP	
	@Temperature 40.0 °C	@Temperature 104 °F	
	10000 - 15000 cP	10000 - 15000 cP	
	@Temperature 21.0 °C	@Temperature 69.8 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	68.95 MPa	10000 psi	
Modulus of Elasticity	3.447 GPa	500.0 ksi	
Flexural Yield Strength	137.9 MPa	20000 psi	
Compressive Yield Strength	151.7 MPa	22000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 55.0 µm/m-°C	27.8 - 30.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	150 °C	302 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.50e+16 ohm-cm	>= 1.50e+16 ohm-cm	
	3.9 - 4.4	3.9 - 4.4	

Dielectric Constant Electrical Properties	Metric @Frequency 1e+6 Hz	English @Frequency 1e+6 Hz	Comments
	4.2 - 4.5	4.2 - 4.5	
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	15.7 - 17.7 kV/mm	400 - 450 kV/in	Short time value
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	
Pot Life	30.0 - 60.0 min	30.0 - 60.0 min	
	@Temperature 60.0 °C	@Temperature 140 °F	
	60.0 - 180 min	60.0 - 180 min	
	@Temperature 40.0 °C	@Temperature 104 °F	
	180 - 300 min	180 - 300 min	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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