

Abatron AboCast/AboCure 8109-12

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

1-part, contains latent hardener activated by higher temperature. 4-6 month shelf life at 20-25°C (68-77°F). Other versions available with longer shelf lives and cure cycles. Processing: Potlife: 4 months/20°C (68°F), 1-2 months/40°C (105°F), 1-3 h/60°C (140°F); mix at RT; cures in: 3 h/140°C (285°F), 1 h/160°C (320°F), 30 min+1-3 h/180°C (355°F). Applications: Impregnating and laminating.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-12.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Viscosity	20000 - 40000 cP @Temperature 21.0 °C	20000 - 40000 cP @Temperature 69.8 °F	
Vapor Pressure	0.00133 bar @Temperature 180 °C	1.00 torr @Temperature 356 °F	AboCast
	<= 0.00533 bar @Temperature 60.0 °C	<= 4.00 torr @Temperature 140 °F	AboCure

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.16 MPa	8000 psi	
Modulus of Elasticity	2.758 GPa	400.0 ksi	
Flexural Yield Strength	89.63 MPa	13000 psi	
Compressive Yield Strength	117.2 MPa	17000 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 °C	320 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.50e+16 ohm-cm	>= 1.50e+16 ohm-cm	
Dielectric Constant	3.6 - 4.0 @Frequency 1e+6 Hz	3.6 - 4.0 @Frequency 1e+6 Hz	
	3.9 - 4.3 @Frequency 50 Hz	3.9 - 4.3 @Frequency 50 Hz	

Electrical Properties	Metric ³	English ¹	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	13.78 - 15.75 kV/mm	350.0 - 400.0 kV/in	Short time value
	@Thickness 3.17 mm	@Thickness 0.125 in	
Dissipation Factor	0.0030 - 0.0070	0.0030 - 0.0070	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0050 - 0.0090	0.0050 - 0.0090	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.020 - 0.040	0.020 - 0.040	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	
Pot Life	60.0 - 180 min	60.0 - 180 min	
	@Temperature 100 °C	@Temperature 212 °F	
	43200 - 86400 min	43200 - 86400 min	
	@Temperature 40.0 °C	@Temperature 104 °F	
	>= 172800 min	>= 172800 min	>4 months
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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