

Abatron AboCast/AboCure 8109-9

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

Minimum toxicity version of 8109-8. Processing: 100/25 ratio; Potlife: 45 min/20°C (68°F), 20 min/40°C (105°F), 10 min /60°C (140°F); mix at RT; cures in: 24 h/20°C (68°F), 2-3 h/60°C (140°F), 10-20 min/100°C (212°F). Applications: Laminating, small volume potting and impregnating.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-9.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	
Water Absorption	0.50 - 0.60 %	0.50 - 0.60 %	(60x10X4 mm bar) after 10 days at 20°C (77°F)
	0.70 - 0.80 %	0.70 - 0.80 %	(60x10X4 mm bar) after 1 hour at 100°C (212°F)
Viscosity	6500 - 8000 cP	6500 - 8000 cP	
Vapor Pressure	<= 0.0000133 bar @Temperature 20.0 °C	<= 0.0100 torr @Temperature 68.0 °F	AboCure
	0.00133 bar @Temperature 180 °C	1.00 torr @Temperature 356 °F	AboCast

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	62.05 MPa	9000 psi	
Modulus of Elasticity	3.102 GPa	449.9 ksi	
Flexural Yield Strength	110.3 MPa	16000 psi	
Compressive Yield Strength	103.4 MPa	15000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 - 70.0 µm/m-°C @Temperature 20.0 °C	36.1 - 38.9 µin/in-°F @Temperature 68.0 °F	
Maximum Service Temperature, Air	110 °C	230 °F	Deflection temperature; load unknown.

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

Electrical Properties	Metric ¹	English ¹	Comments
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.5 - 4.8	4.5 - 4.8	
	@Frequency 50 Hz	@Frequency 50 Hz	
Dissipation Factor	0.010 - 0.020	0.010 - 0.020	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.030 - 0.040	0.030 - 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	10.0 min	10.0 min	
	@Temperature 60.0 °C	@Temperature 140 °F	
	20.0 min	20.0 min	
	@Temperature 40.0 °C	@Temperature 104 °F	
	45.0 min	45.0 min	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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