

Abatron AboCast/AboCure 8109-11

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

All-purpose, structural dielectric resin. Better thermal and chemical properties than 8109-8, but requires heat cure. Melts at 70-80°C and remains liquid (supercooled) for many hours at RT. Processing: 100/28 pbw; Potlife: 7-10 h/20°C (68°F), 3-5 h/40°C (105°F), 1-2 h/60°C (140°F); mix at RT; cures in: 20 h/60°C (140°F), 30 min/100°C (212°F), 20 min/140°C (285°F), 1 min + 1-3 h/180°C (356°F). Applications: High temperature performance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-11.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	
Water Absorption	0.40 - 0.50 %	0.40 - 0.50 %	(60x10X4 mm bar) after 1 hour at 100°C (212°F)
	0.50 - 0.60 %	0.50 - 0.60 %	(60x10X4 mm bar) after 10 days at 20°C (77°F)
Viscosity	200 - 300 cP	200 - 300 cP	
	@Temperature 60.0 °C	@Temperature 140 °F	
	1000 - 2000 cP	1000 - 2000 cP	
	@Temperature 40.0 °C	@Temperature 104 °F	
	20000 - 40000 cP	20000 - 40000 cP	
	@Temperature 21.0 °C	@Temperature 69.8 °F	
Vapor Pressure	<= 0.0000133 bar	<= 0.0100 torr	AboCure
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	0.00133 bar	1.00 torr	AboCast
	@Temperature 180 °C	@Temperature 356 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	68.95 MPa	10000 psi	
Modulus of Elasticity	2.758 GPa	400.0 ksi	
Flexural Yield Strength	137.9 MPa	20000 psi	
Compressive Yield Strength	124.1 MPa	18000 psi	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
	60.0 - 70.0 µm/m-°C	33.3 - 38.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.130 - 0.170 W/m-K	0.902 - 1.18 BTU-in/hr-ft²-°F	
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	3.7 - 4.2	3.7 - 4.2	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.0 - 4.5	4.0 - 4.5	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.1 - 4.5	4.1 - 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	
Dissipation Factor	0.0050 - 0.0070	0.0050 - 0.0070	
	@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 - 120 min	60.0 - 120 min	
	@Temperature 60.0 °C	@Temperature 140 °F	
	180 - 300 min	180 - 300 min	
	@Temperature 40.0 °C	@Temperature 104 °F	
	420 - 600 min	420 - 600 min	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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