

## Abatron AboCast/AboCure 8109-8

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

All-purpose, structural dielectric resin. High thermal and chemical resistance and RT cure. Processing: 100/12 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-8109-8.php](http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-8.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	
Water Absorption	0.30 - 0.40 %	0.30 - 0.40 %	(60x10X4 mm bar) after 10 days at 20°C (77°F)
	0.60 - 1.0 %	0.60 - 1.0 %	(60x10X4 mm bar) after 1 hour at 100°C (212°F)
Viscosity	4500 - 6000 cP	4500 - 6000 cP	
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	65.5 MPa	9500 psi	
Modulus of Elasticity	3.447 GPa	500.0 ksi	
Flexural Yield Strength	124.1 MPa	18000 psi	
Compressive Yield Strength	124.1 MPa	18000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 - 70.0 µm/m-°C	36.1 - 38.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.190 - 21.0 W/m-K	1.32 - 146 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	120 °C	248 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.50e+16 ohm-cm	>= 1.50e+16 ohm-cm	
Dielectric Constant	3.65 - 3.85	3.65 - 3.85	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.8 - 4.0	3.8 - 4.0	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.85 - 4.05	3.85 - 4.05	
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	15.7 - 19.7 kV/mm	400 - 500 kV/in	Short time value
	@Thickness 3.17 mm	@Thickness 0.125 in	
Dissipation Factor	0.0050 - 0.010	0.0050 - 0.010	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.010 - 0.015	0.010 - 0.015	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.025 - 0.030	0.025 - 0.030	
	@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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