

## Abatron AboCast/AboCure 8109-3

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

Low viscosity, RT cure. Easy processing. Processing: 100/10 pbw; Potlife: 2.5 h/20°C (68°F), 30 min/40°C (105°F), 15 min/60°C (140°F); mix at RT; cures in: 24 h/20°C (68°F), 2-3 h/60°C (140°F), 15 min/100°C (212°F). Applications: Laminating, small parts, and potting.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Abatron-AboCastAboCure-8109-3.php](http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-3.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	
Water Absorption	0.30 - 0.50 %	0.30 - 0.50 %	(60x10X4 mm bar) after 10 days at 20°C (77°F)
	0.70 - 1.0 %	0.70 - 1.0 %	(60x10X4 mm bar) after 1 hour at 100°C (212°F)
Viscosity	1600 - 2000 cP	1600 - 2000 cP	
Vapor Pressure	<= 0.0000133 bar	<= 0.0100 torr	AboCure
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Vapor Pressure	<= 0.00133 bar	<= 1.00 torr	AboCast
	@Temperature 100 °C	@Temperature 212 °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	96.53 MPa	14000 psi	
Compressive Yield Strength	103.4 MPa	15000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 - 95.0 µm/m-°C	50.0 - 52.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.150 - 0.170 W/m-K	1.04 - 1.18 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	55.0 °C	131 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	$\geq 1.50 \times 10^{16}$ ohm-cm Metric	$\geq 1.50 \times 10^{16}$ ohm-cm English	Comments
Dielectric Constant	3.6 - 3.8	3.6 - 3.8	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.8 - 4.0	3.8 - 4.0	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.9 - 4.1	3.9 - 4.1	
	@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	0.010 - 0.020	0.010 - 0.020	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.010 - 0.020	0.010 - 0.020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.020 - 0.030	0.020 - 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	15.0 min	15.0 min	
	@Temperature 60.0 °C	@Temperature 140 °F	
	30.0 min	30.0 min	
	@Temperature 40.0 °C	@Temperature 104 °F	
	150 min	150 min	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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