

## Abatron AboCast/AboCure 8109-4

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

Safety hardener (minimum toxicity) version of 8109-3. 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-8109-4.php](http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-4.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	
Water Absorption	0.60 - 0.70 %	0.60 - 0.70 %	(60x10X4 mm bar) after 10 days at 20°C (77°F)
	1.0 - 1.1 %	1.0 - 1.1 %	(60x10X4 mm bar) after 1 hour at 100°C (212°F)
Viscosity	2000 - 2600 cP	2000 - 2600 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 100 °C	@Temperature 212 °F	

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	89.63 MPa	13000 psi	
Compressive Yield Strength	82.74 MPa	12000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	95.0 - 100 µm/m-°C	52.8 - 55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	55.0 °C	131 °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 <sup>®</sup>	English <sup>®</sup>	Comments
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.0 - 4.1	4.0 - 4.1	
	@Frequency 50 Hz	@Frequency 50 Hz	
Dissipation Factor	0.010 - 0.020	0.010 - 0.020	
	0.015 - 0.025	0.015 - 0.025	
	@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	

## Contact Songhan Plastic Technology Co.,Ltd.

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