

## Abatron AboCast/AboCure 8109-6

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

High heat resistance. Easy to use. Processing: 100/90 pbw; Potlife: 15-20 days/20°C (68°F), 7-10 h/120°C (250°F); mix at RT; cures in: 3 h/100°C (212°F) + 3 h/190°C (375°F) postcure. Applications: Castings and laminates for high temperature applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Abatron-AboCastAboCure-8109-6.php](http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-6.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	
Water Absorption	0.15 - 0.20 %	0.15 - 0.20 %	(60x10X4 mm bar) after 1 hour at 100°C (212°F)
	0.20 - 0.30 %	0.20 - 0.30 %	(60x10X4 mm bar) after 10 days at 20°C (77°F)
Viscosity	1000 - 2500 cP	1000 - 2500 cP	
Vapor Pressure	<= 0.0000267 bar	<= 0.0200 torr	AboCure
	@Temperature 50.0 °C	@Temperature 122 °F	
	<= 0.00133 bar	<= 1.00 torr	AboCast
	@Temperature 180 °C	@Temperature 356 °F	
	0.00200 bar	1.50 torr	AboCure
	@Temperature 100 °C	@Temperature 212 °F	
	0.0293 bar	22.0 torr	AboCure
	@Temperature 165 °C	@Temperature 329 °F	
	0.0667 bar	50.0 torr	AboCure
	@Temperature 180 °C	@Temperature 356 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.84 MPa	11000 psi	
Modulus of Elasticity	3.102 GPa	449.9 ksi	
Flexural Yield Strength	131 MPa	19000 psi	
Compressive Yield Strength	137.9 MPa	20000 psi	

Thermal Properties	Metric	English	Comments
	55.0 - 65.0 µm/m-°C	30.6 - 36.1 µin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	Comments
Maximum Service Temperature, Air	150 °C	302 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.50e+16 ohm-cm	>= 1.50e+16 ohm-cm	
Dielectric Constant	3.3 - 3.5	3.3 - 3.5	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.4 - 3.6	3.4 - 3.6	
Dielectric Strength	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.6 - 3.8	3.6 - 3.8	
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	13.8 - 17.7 kV/mm	350 - 450 kV/in	Short time value
	@Thickness 3.17 mm	@Thickness 0.125 in	
Dissipation Factor	0.0020 - 0.0040	0.0020 - 0.0040	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0030 - 0.0050	0.0030 - 0.0050	
Dissipation Factor	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.010 - 0.015	0.010 - 0.015	
Dissipation Factor	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	
Pot Life	420 - 600 min	420 - 600 min	
	@Temperature 120 °C	@Temperature 248 °F	
Pot Life	21600 - 28800 min	21600 - 28800 min	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China