

## Abatron AboCast/AboCure 8109-7

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

Processing: 100/80 pbw; Potlife: 6-7 days/20°C (68°F), 12-24 h/40°C (105°F), 0.75-7 h /60°C (140°F); mix at 50-80°C (120-175°F); cures in: 1 h/100°C (212°F) + 4 h/150°C (300°F) postcure. Applications: Potting, impregnating and laminating.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Abatron-AboCastAboCure-8109-7.php](http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-7.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	
Water Absorption	0.25 - 0.30 %	0.25 - 0.30 %	(60x10X4 mm bar) after 10 days at 20°C (77°F)
	0.25 - 0.30 %	0.25 - 0.30 %	(60x10X4 mm bar) after 1 hour at 100°C (212°F)
Viscosity	50 - 150 cP	50 - 150 cP	
	@Temperature 60.0 °C	@Temperature 140 °F	
	200 - 400 cP	200 - 400 cP	
	@Temperature 40.0 °C	@Temperature 104 °F	
	1000 - 2000 cP	1000 - 2000 cP	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Vapor Pressure	<= 0.0000133 bar	<= 0.0100 torr	AboCure
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	0.000933 bar	0.700 torr	AboCure
	@Temperature 80.0 °C	@Temperature 176 °F	
	<= 0.00133 bar	<= 1.00 torr	AboCast
	@Temperature 180 °C	@Temperature 356 °F	
	0.00267 bar	2.00 torr	AboCure
	@Temperature 120 °C	@Temperature 248 °F	
	0.0213 bar	16.0 torr	AboCure
	@Temperature 135 °C	@Temperature 275 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.84 MPa	11000 psi	
Modulus of Elasticity	2.758 GPa	400.0 ksi	

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	137.9 MPa	20000 psi	
Compressive Yield Strength	124.1 MPa	18000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 - 65.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	30.6 - 36.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	
Maximum Service Temperature, Air	130 $^\circ\text{C}$	266 $^\circ\text{F}$	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.50\text{e}+16$ ohm-cm	$\geq 1.50\text{e}+16$ ohm-cm	
Dielectric Constant	3.0 - 3.3 @Frequency 1e+6 Hz	3.0 - 3.3 @Frequency 1e+6 Hz	
	3.2 - 3.5 @Frequency 1000 Hz	3.2 - 3.5 @Frequency 1000 Hz	
	3.4 - 3.7 @Frequency 50 Hz	3.4 - 3.7 @Frequency 50 Hz	
Dielectric Strength	13.78 - 15.75 kV/mm @Thickness 3.17 mm	350.0 - 400.0 kV/in @Thickness 0.125 in	Short time value
Dissipation Factor	0.0050 - 0.010 @Frequency 50 Hz	0.0050 - 0.010 @Frequency 50 Hz	
	0.0050 - 0.010 @Frequency 1000 Hz	0.0050 - 0.010 @Frequency 1000 Hz	
	0.015 - 0.020 @Frequency 1e+6 Hz	0.015 - 0.020 @Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	50.0 - 80.0 $^\circ\text{C}$	122 - 176 $^\circ\text{F}$	
Pot Life	45.0 - 420 min @Temperature 60.0 $^\circ\text{C}$	45.0 - 420 min @Temperature 140 $^\circ\text{F}$	
	720 - 1440 min @Temperature 40.0 $^\circ\text{C}$	720 - 1440 min @Temperature 104 $^\circ\text{F}$	

Processing Properties	8640 - 10080 min Metric	8640 - 10080 min English	Comments
	@Temperature 20.0 °C	@Temperature 68.0 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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