

Abatron AboCast/AboCure 8109-1

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

High melting point.Processing: 100/30 pbw; mix at 130-140°C (270 °F); cures in 16 h/120°C (250°F), 10 h/140°C (285°F), 8 h/160°C (320°F), 2 h/ 200°C (390°F).Applications: Heavy duty casting and potting.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-1.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	
Water Absorption	0.25 - 0.35 %	0.25 - 0.35 %	(60x10X4 mm bar) after 10 days at 20°C (77°F)
	0.30 - 0.45 %	0.30 - 0.45 %	(60x10X4 mm bar) after 1 hour at 100°C (212°F)
Viscosity	200 - 600 cP	200 - 600 cP	
	@Temperature 120 °C	@Temperature 248 °F	
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	
	0.00133 bar	1.00 torr	AboCure
	@Temperature 100 °C	@Temperature 212 °F	
	0.00373 bar	2.80 torr	AboCure
	@Temperature 120 °C	@Temperature 248 °F	
	0.0133 bar	10.0 torr	AboCure
	@Temperature 135 °C	@Temperature 275 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	82.73 MPa	12000 psi	
Modulus of Elasticity	2.758 GPa	400.0 ksi	
Flexural Yield Strength	137.9 MPa	20000 psi	
Compressive Yield Strength	117.2 MPa	17000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 65.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	33.3 - 36.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	0.170 - 0.200 W/m-K	1.18 - 1.39 BTU-in/hr-ft ² - $^\circ\text{F}$	
Maximum Service Temperature, Air	110 $^\circ\text{C}$	230 $^\circ\text{F}$	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	3.5 - 3.7	3.5 - 3.7	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.5 - 3.7	3.5 - 3.7	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.6 - 3.9	3.6 - 3.9	
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	14.76 - 17.72 kV/mm	374.9 - 450.1 kV/in	Short time value
	@Thickness 3.17 mm	@Thickness 0.125 in	
Dissipation Factor	0.0030 - 0.0070	0.0030 - 0.0070	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0050 - 0.010	0.0050 - 0.010	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.025 - 0.035	0.025 - 0.035	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	130 - 140 $^\circ\text{C}$	266 - 284 $^\circ\text{F}$	
Pot Life	90.0 min	90.0 min	
	@Temperature 120 $^\circ\text{C}$	@Temperature 248 $^\circ\text{F}$	

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