

Abatron AboCast/AboCure 8109-5

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

High heat resistance. Easy to use. Processing: 100/20 pbw; Potlife: 7-10 days/20°C (68°F), 5-7h/60°C (140°F); mix at RT; cures in: 4 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-8109-5.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	
Water Absorption	0.20 - 0.25 %	0.20 - 0.25 %	(60x10X4 mm bar) after 1 hour at 100°C (212°F)
	0.40 - 0.50 %	0.40 - 0.50 %	(60x10X4 mm bar) after 10 days at 20°C (77°F)
Viscosity	20 - 30 cP	20 - 30 cP	
	@Temperature 120 °C	@Temperature 248 °F	
	80 - 150 cP	80 - 150 cP	
	@Temperature 70.0 °C	@Temperature 158 °F	
	1500 - 2500 cP	1500 - 2500 cP	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
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	68.95 MPa	10000 psi	
Modulus of Elasticity	3.447 GPa	500.0 ksi	

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

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 - 65.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	30.6 - 36.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Maximum Service Temperature, Air	180 $^\circ\text{C}$	356 $^\circ\text{F}$	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	3.3 - 3.5	3.3 - 3.5	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.6 - 3.8	3.6 - 3.8	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.7 - 3.9	3.7 - 3.9	
	@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	0.0030 - 0.0050	0.0030 - 0.0050	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0050 - 0.0070	0.0050 - 0.0070	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	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 $^\circ\text{C}$	77.0 $^\circ\text{F}$	
Pot Life	300 - 420 min	300 - 420 min	
	@Temperature 60.0 $^\circ\text{C}$	@Temperature 140 $^\circ\text{F}$	
	10080 - 14400 min	10080 - 14400 min	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	

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