

Abatron AboCast/AboCure 8109-10

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

2-part, clear, slow casting/impregnating dielectric compound. Low dielectric constant, good flexibility and thermocycling properties.

Abocast 8502-4 is a red (and other colors), filled version. Processing: 100% solids; 100/130 ratio; Potlife: 6-8 days/20°C (68°F); 1-2 days 40°C (105°F), 10-15 hours at 60°C (140°F); cures im: 8 h/80°C (175°F), 6 h/100°C (212°F), 4 h/120°C (250°F); mix thoroughly at RT, heat to desired viscosity, apply to clean, dry surface. Applications: Impregnating and potting.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8109-10.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	
Water Absorption	0.20 - 0.35 %	0.20 - 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	3500 - 6500 cP	3500 - 6500 cP	
	30 - 60 cP	30 - 60 cP	
	@Temperature 60.0 °C	@Temperature 140 °F	
	350 - 650 cP	350 - 650 cP	
Vapor Pressure	@Temperature 40.0 °C	@Temperature 104 °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	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.15 MPa	7999 psi	
Modulus of Elasticity	2.068 GPa	299.9 ksi	
Flexural Yield Strength	86.18 MPa	12500 psi	
Compressive Yield Strength	89.63 MPa	13000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	95.0 - 105 µm/m-°C	52.8 - 58.3 µin/in-°F	

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Maximum Service Temperature, Air	70.0 °C	158 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.50e+16 ohm-cm	>= 1.50e+16 ohm-cm	
Dielectric Constant	2.5 - 3.0	2.5 - 3.0	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	2.6 - 3.1	2.6 - 3.1	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	2.7 - 3.2	2.7 - 3.2	
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	11.8 - 15.7 kV/mm	300 - 400 kV/in	Short time value
	@Thickness 3.17 mm	@Thickness 0.125 in	
Dissipation Factor	0.0030 - 0.0060	0.0030 - 0.0060	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0050 - 0.0070	0.0050 - 0.0070	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.010 - 0.015	0.010 - 0.015	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	
Pot Life	600 - 900 min	600 - 900 min	
	@Temperature 60.0 °C	@Temperature 140 °F	
	1440 - 2880 min	1440 - 2880 min	
	@Temperature 40.0 °C	@Temperature 104 °F	
	8640 - 11520 min	8640 - 11520 min	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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