

Abatron AboCast 8103-28 High-Performance Dielectric Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy , Cast , Unreinforced

Material Notes:

AboCast 8103-28 is a dielectric in/outdoor epoxy system with superior arc-track resistance, high voltage and heat resistance, low ash and ion content, and it is chlorine-free. This system has high heat conductivity, low thermal expansion, and negligible shrinkage.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-8103-28-High-Performance-Dielectric-Epoxy.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.9 MPa	7240 psi	
Elongation at Break	1.34 %	1.34 %	
Tensile Modulus	6.76 GPa	981 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	126 °C	259 °F	Deflection Temp at unknown load

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+13 ohm-cm	3.00e+13 ohm-cm	
Dielectric Constant	4.0	4.0	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	4.9	4.9	
Dielectric Strength	@Frequency 60.0 Hz, Temperature 100 °C	@Frequency 60.0 Hz, Temperature 212 °F	
	5.6	5.6	
	@Frequency 60.0 Hz, Temperature 150 °C	@Frequency 60.0 Hz, Temperature 302 °F	
Dielectric Strength	15.4 kV/mm	390 kV/in	S/T
Dissipation Factor	0.027	0.027	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	0.098	0.098	
Dissipation Factor	@Frequency 60.0 Hz, Temperature 100 °C	@Frequency 60.0 Hz, Temperature 212 °F	
	0.142	0.142	

Electrical Properties	@Frequency 60.0 Hz, Metric Temperature 150 °C	@Frequency 60.0 Hz, English Temperature 302 °F	Comments
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Processing Properties	Metric	English	Comments
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Cure Time	120 min	2.00 hour	
	@Temperature 100 - 120 °C	@Temperature 212 - 248 °F	

	120 - 240 min	2.00 - 4.00 hour	optional
	@Temperature 120 - 160 °C	@Temperature 248 - 320 °F	

Pot Life	30 min	30 min	
	@Temperature 80.0 °C	@Temperature 176 °F	

	>= 480 min	>= 480 min	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
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Arc-Track Free (min)	> 2000	2.5 KV
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Color	Gray or Custom	
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Parts by Weight (pbw)	100	Part A
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	17.6	Part B
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Thermal Shock Resistance	Scale 0 (poor) to 10 (excellent)	
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