

Abatron AboCast 8103-25 High-Performance Dielectric Epoxy

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

Material Notes:

AboCast 8103-25 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 combines optimum physical properties and thermo shock resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-8103-25-High-Performance-Dielectric-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0420 lb/in ³	Part A
	1.17 g/cc	0.0424 lb/in ³	Part B

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	71.7 MPa	10400 psi	
Elongation at Break	5.9 %	5.9 %	
Tensile Modulus	2.61 GPa	379 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	123 °C	253 °F	Deflection Temp at unknown load

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.80e+15 ohm-cm	1.80e+15 ohm-cm	
Dielectric Constant	3.2	3.2	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	4.2	4.2	
Dissipation Factor	@Frequency 60.0 Hz, Temperature 100 °C	@Frequency 60.0 Hz, Temperature 212 °F	
	4.72	4.72	
	@Frequency 60.0 Hz, Temperature 150 °C	@Frequency 60.0 Hz, Temperature 302 °F	
Dissipation Factor	0.016	0.016	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	0.053	0.053	

Electrical Properties	Metric @Frequency 60.0 Hz, Temperature 100 °C	English @Frequency 60.0 Hz, Temperature 212 °F	Comments
	0.089	0.089	
	@Frequency 60.0 Hz, Temperature 150 °C	@Frequency 60.0 Hz, Temperature 302 °F	
Arc Resistance	>= 150 sec	>= 150 sec	

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	60.0 - 240 min	1.00 - 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
Arc-Track Free (min)	> 2000	2.5 KV
Color	Opaque	
Parts by Weight (pbw)	100	Part A
	78	Part B
Thermal Shock Resistance	Scale 0 (poor) to 10 (excellent)	

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