

Abatron AboCast 8103-22 High-Performance Dielectric Epoxy

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

Material Notes:

AboCast 8103-22 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 is used in light emitting diodes and where light-fast transparency is needed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-8103-22-High-Performance-Dielectric-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0411 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	77.9 MPa	11300 psi	
Elongation at Break	4.9 %	4.9 %	
Tensile Modulus	2.84 GPa	412 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	108 °C	226 °F	Deflection Temp at unknown load

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	
Dielectric Constant	3.0	3.0	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	3.2	3.2	
Dissipation Factor	@Frequency 60.0 Hz, Temperature 100 °C	@Frequency 60.0 Hz, Temperature 212 °F	
	4.1	4.1	
	@Frequency 60.0 Hz, Temperature 150 °C	@Frequency 60.0 Hz, Temperature 302 °F	
Dissipation Factor	0.0050	0.0050	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	0.020	0.020	

Electrical Properties	Metric @Frequency 60.0 Hz, Temperature 100 °C	English @Frequency 60.0 Hz, Temperature 212 °F	Comments
	0.070	0.070	
	@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	Clear	
Parts by Weight (pbw)	100	Part A
	77	Part B
Thermal Shock Resistance	Scale 0 (poor) to 10 (excellent)	

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