

## Abatron AboCast 8103-24 High-Performance Dielectric Epoxy

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

### Material Notes:

AboCast 8103-24 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 an exceptional combination of rigidity, heat and thermocycling resistance.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Abatron-AboCast-8103-24-High-Performance-Dielectric-Epoxy.php](http://www.lookpolymers.com/polymer_Abatron-AboCast-8103-24-High-Performance-Dielectric-Epoxy.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0411 lb/in <sup>3</sup>	Part A
	1.17 g/cc	0.0424 lb/in <sup>3</sup>	Part B

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.1 MPa	6100 psi	
Elongation at Break	11 %	11 %	
Tensile Modulus	1.54 GPa	223 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	163 °C	325 °F	Deflection Temp at unknown load

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Constant	3.3	3.3	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	3.79	3.79	
Dissipation Factor	@Frequency 60.0 Hz, Temperature 100 °C	@Frequency 60.0 Hz, Temperature 212 °F	
	4.6	4.6	
	@Frequency 60.0 Hz, Temperature 150 °C	@Frequency 60.0 Hz, Temperature 302 °F	
Dissipation Factor	0.0090	0.0090	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	0.027	0.027	

Electrical Properties	Metric @Frequency 60.0 Hz, Temperature 100 °C	English @Frequency 60.0 Hz, Temperature 212 °F	Comments
	0.073	0.073	
	@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
	75	Part B
Thermal Shock Resistance	Scale 0 (poor) to 10 (excellent)	

## Contact Songhan Plastic Technology Co.,Ltd.

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