

## Abatron AboCast 8103-27 High-Performance Dielectric Epoxy

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

**Material Notes:**

AboCast 8103-27 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-8103-27-High-Performance-Dielectric-Epoxy.php](http://www.lookpolymers.com/polymer_Abatron-AboCast-8103-27-High-Performance-Dielectric-Epoxy.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.2 MPa	6700 psi	
Elongation at Break	2.2 %	2.2 %	
Tensile Modulus	6.33 GPa	918 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	118 °C	244 °F	Deflection Temp at unknown load

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+13 ohm-cm	6.00e+13 ohm-cm	
Dielectric Constant	3.5	3.5	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	3.9	3.9	
Dielectric Strength	@Frequency 60.0 Hz, Temperature 100 °C	@Frequency 60.0 Hz, Temperature 212 °F	
	4.31	4.31	
	@Frequency 60.0 Hz, Temperature 150 °C	@Frequency 60.0 Hz, Temperature 302 °F	
Dielectric Strength	16.2 kV/mm	412 kV/in	S/T
Dissipation Factor	0.014	0.014	
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	0.036	0.036	
Dissipation Factor	@Frequency 60.0 Hz, Temperature 100 °C	@Frequency 60.0 Hz, Temperature 212 °F	
	0.071	0.071	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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