

## Abatron AboCast 8103-11 One Part Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

One component system. Information provided by Abatron, Inc. Processing: Shelf life 6-8 months at 25°C (77°F). Heat cured; Pot life 190 min. at 100°C (212°F). Peak exotherm 170°C (340°F). At 100°C (212°F), gels in 3-4 hrs, total cure in 4-6 hrs. At 110-120°C (230-250°F) gels to 0.5-1 hr and total cure in 1-2 hrs.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Abatron-AboCast-8103-11-One-Part-Epoxy.php](http://www.lookpolymers.com/polymer_Abatron-AboCast-8103-11-One-Part-Epoxy.php)

Physical Properties	Metric	English	Comments
Viscosity Measurement	12000	12000	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	111	111	
Tensile Strength, Ultimate	39.0 MPa	5660 psi	
Elongation at Break	1.6 %	1.6 %	
Flexural Yield Strength	96.53 MPa	14000 psi	
Flexural Modulus	3.10 GPa	450 ksi	
Compressive Yield Strength	113.8 MPa	16510 psi	
Compressive Modulus	2.28 GPa	330 ksi	
	2.30 GPa	334 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 °C	320 °F	Deflection temperature; load unknown.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	9.63e+15 ohm-cm	9.63e+15 ohm-cm	
Surface Resistance	7.85e+15 ohm	7.85e+15 ohm	
Dielectric Constant	3.15	3.15	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.35	3.35	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.0035	0.0035	
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.055	0.055	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.23	0.23	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
Exotherm	170°C	Peak

## Contact Songhan Plastic Technology Co.,Ltd.

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