

## Abatron AboCast/AboCure 8502-1 Epoxy

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

**Material Notes:**

AboCast/AboCure 8502-1 is a solventless clear Epoxy System, used as a casting, adhesive, and impregnating resin for transformers, capacitors, coils, and other electronic components requiring a low-viscosity, flexibilized resin with long pot life. It is also available in colors and in filled form. It is easy to use and its shelf life is virtually indefinite.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Abatron-AboCastAboCure-8502-1-Epoxy.php](http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-8502-1-Epoxy.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0420 lb/in <sup>3</sup>	
Water Absorption	0.30 - 0.40 % @Time 864000 sec	0.30 - 0.40 % @Time 240 hour	
Viscosity	46 cP @Temperature 65.0 °C	46 cP @Temperature 149 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	
Tensile Strength, Ultimate	67.6 MPa	9800 psi	
Elongation at Break	1.7 %	1.7 %	
Elongation at Yield	4.7 %	4.7 %	
Tensile Modulus	5.86 GPa	850 ksi	
Flexural Strength	64.8 MPa	9400 psi	
Flexural Modulus	2.07 GPa	300 ksi	
Compressive Yield Strength	103 MPa	15000 psi	
Compressive Modulus	3.34 GPa	485 ksi	
Izod Impact, Notched	0.320 J/cm	0.600 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 65.0 µm/m-°C	33.3 - 36.1 µin/in-°F	
Thermal Conductivity	0.167 - 0.201 W/m-K	1.16 - 1.39 BTU-in/hr-ft <sup>2</sup> -°F	

Maximum Service Temperature, Air Thermal Properties	49.0 °C Metric	120 °F English	Deflection Temp at unknown load Comments
<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Volume Resistivity	2.50e+15 ohm-cm	2.50e+15 ohm-cm	Cond. C (96 hrs/23°C/96% rel. humidity)
	5.10e+15 ohm-cm	5.10e+15 ohm-cm	Cond. A (as received)
Surface Resistance	2.70e+14 ohm	2.70e+14 ohm	Cond. C
	2.80e+14 ohm	2.80e+14 ohm	Cond. A
Dielectric Constant	3.23	3.23	Cond. A (as received)
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.32	3.32	Cond. D (48 hrs. in dist. H2O at 50°C)
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.44	3.44	Cond. A (as received)
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.47	3.47	Cond. A (as received)
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	3.93	3.93	Cond. D (48 hrs. in dist. H2O at 50°C)
@Frequency 1000 Hz	@Frequency 1000 Hz		
4.16	4.16	Cond. D (48 hrs. in dist. H2O at 50°C)	
@Frequency 60.0 Hz	@Frequency 60.0 Hz		
Dissipation Factor	0.0070	0.0070	Cond. A (as received)
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0079	0.0079	Cond. A (as received)
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	0.026	0.026	Cond. A (as received)
@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz		
0.032	0.032	Cond. D (48 h. in dist. H2O at 50°C)	
@Frequency 1000 Hz	@Frequency 1000 Hz		
0.045	0.045	Cond. D (48 h. in dist. H2O at 50°C)	
@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz		

Electrical Properties	Metric	English	Comments
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	Cond. B (48 h. in dist. H <sub>2</sub> O at 50 °C)

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	
	@Temperature 150 - 160 °C	@Temperature 302 - 320 °F	
Pot Life	960 min	16.0 hour	
	@Temperature 95.0 °C	@Temperature 203 °F	
Pot Life	420 min	420 min	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	2880 min	2880 min	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Descriptive Properties	Value	Comments
Deflection at Break	0.53 in.	
Parts by Weight (pbw)	100	AboCast
	88	AboCure

## Contact Songhan Plastic Technology Co.,Ltd.

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