

## Abatron AboCast 8504-5 One-Component Epoxy

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

### Material Notes:

AboCast 8504-5 is a clear, plasticized one-component epoxy system with very high strength and impact. It provides exceptional physical properties and thermal shock resistance from sub-zero to moderately high temperatures. Suggested Uses: Casting; Potting; Encapsulating; Embedding applications where 2-component systems can not be used; Electronic and structural components, patterns, and medical equipment; Coating; Impregnation; Resurfacing; Insulation; Bonding metal, ceramics, glass, and most rigid materials; Assembly; Patching; and Filling.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Abatron-AboCast-8504-5-One-Component-Epoxy.php](http://www.lookpolymers.com/polymer_Abatron-AboCast-8504-5-One-Component-Epoxy.php)

Physical Properties	Metric	English	Comments
Viscosity	1500 cP	1500 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	
Tensile Strength at Break	61.4 MPa	8900 psi	
Elongation at Break	7.6 %	7.6 %	
Flexural Strength	100 MPa	14500 psi	
Flexural Modulus	3.03 GPa	440 ksi	
Compressive Strength	279 MPa	40500 psi	

Thermal Properties	Metric	English	Comments
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	72.0 °C	162 °F	Deflection Temp at unknown load

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.51e+15 ohm-cm	1.51e+15 ohm-cm	C 96/23/96
	3.77e+15 ohm-cm	3.77e+15 ohm-cm	"A"
Surface Resistance	1.02e+15 ohm	1.02e+15 ohm	C 96/23/96
	1.57e+15 ohm	1.57e+15 ohm	Cond. A
Dielectric Constant	3.2	3.2	A

Electrical Properties	@Frequency 1.00e+6 Metric Hz	@Frequency 1.00e+6 English Hz	Comments
	3.54	3.54	A
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 hour	
	@Temperature 150 - 160 °C	@Temperature 302 - 320 °F	
	60.0 - 240 min	1.00 - 4.00 hour	optional
	@Temperature 160 - 180 °C	@Temperature 320 - 356 °F	
Pot Life	220 min	220 min	
	@Temperature 100 °C	@Temperature 212 °F	
Shelf Life	5.00 - 8.00 Month	5.00 - 8.00 Month	

## Contact Songhan Plastic Technology Co.,Ltd.

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