

Abatron AboCast 8501-6 One-Component Epoxy

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

Material Notes:

AboCast 8501-6 is a clear, high-temperature one-component epoxy system for very high-temperature uses. It offers the highest heat resistance of the clear resins. 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-8501-6-One-Component-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	17000 cP	17000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	121	121	
Tensile Strength at Break	26.2 MPa	3800 psi	
Elongation at Break	0.70 %	0.70 %	
Flexural Strength	100 MPa	14500 psi	
Flexural Modulus	3.45 GPa	500 ksi	
Compressive Strength	244 MPa	35400 psi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.167 - 0.201 W/m-K	1.16 - 1.39 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	255 °C	491 °F	Deflection Temp at unknown load

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.10e+16 ohm-cm	1.10e+16 ohm-cm	C 96/23/96
	1.22e+16 ohm-cm	1.22e+16 ohm-cm	"A"
Surface Resistance	>= 7.85e+15 ohm	>= 7.85e+15 ohm	Cond. A
	>= 7.85e+15 ohm	>= 7.85e+15 ohm	C 96/23/96
Dielectric Constant	3.33	3.33	A
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	A

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	160 min	160 min	
	@Temperature 100 °C	@Temperature 212 °F	
Shelf Life	5.00 - 8.00 Month	5.00 - 8.00 Month	

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