

Abatron AboCast 8103-14 One-Component Epoxy

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

Material Notes:

AboCast 8103-14 is the lowest-viscosity one-component epoxy system with heavy-duty structural and dielectric properties. It is clear and has maximum wetting and penetration. 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-8103-14-One-Component-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	200 cP	200 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	
Tensile Strength at Break	57.9 MPa	8400 psi	
Elongation at Break	5.1 %	5.1 %	
Flexural Strength	83.4 MPa	12100 psi	
Flexural Modulus	2.28 GPa	330 ksi	
Compressive Strength	75.2 MPa	10900 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	79.0 °C	174 °F	Deflection Temp at unknown load

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.04e+14 ohm-cm	3.04e+14 ohm-cm	C 96/23/96
	3.80e+15 ohm-cm	3.80e+15 ohm-cm	"A"
Surface Resistance	1.13e+14 ohm	1.13e+14 ohm	C 96/23/96
	3.93e+15 ohm	3.93e+15 ohm	Cond. A
Dielectric Constant	3.12	3.12	A
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.26	3.26	A

Electrical Properties	@Frequency 60.0 Hz Metric	@Frequency 60.0 Hz English	Comments
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	205 min	205 min	
	@Temperature 100 °C	@Temperature 212 °F	
Shelf Life	5.00 - 8.00 Month	5.00 - 8.00 Month	

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