

Abatron AboCast 7703-21/AboCure 7703-21 (A) Epoxy Adhesive and Casting Compound

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

Material Notes:

AboCast 7703-21/AboCure 7703-21 is an all-purpose clear, low-viscosity, variable-ratio epoxy adhesive and casting compound for electric and structural applications. As an Adhesive: it bonds permanently to metal, wood, glass, fiberglass, ceramics, rigid plastics, concrete, marble, stones, and jewelry. It is excellent to laminate fiberglass, metal sheets, paper or canvas, or any other material for composite structures. As a Dielectric: widely used for potting, encapsulating, dipping, insulating circuits, chips, and other components. As a Casting Resin: for filling, embedments, reproductions, tooling (as is, or blended with fillers such as metal powders, sawdust, etc.). This compound is virtually unaffected by average ambient conditions, soft and salt water, alkalis and diluted acids, several solvents, detergents, oils and greases. Final properties can be modified by changing the AboCast/AboCure ratios: the highest rigidity, hardness, chemical and heat resistance are offered by the 1400/40 ratio. Higher AboCure ratios (up to 100/100 parts AboCast/AboCure) yield increasing flexibility, shock and thermocycling resistance, and adhesion to problem surfaces. The 7703-21 System develops tenacious adhesion to metals, ceramics, wood, fiberglass, masonry, and most materials to form permanent structural and dielectric bonds. Radiation resistance recommends the 7703-21 System in X-ray and other radioactive environments.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-7703-21AboCure-7703-21-A-Epoxy-Adhesive-and-Casting-Compound.php

Physical Properties	Metric	English	Comments
Viscosity	4000 cP	4000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	
Tensile Strength, Ultimate	60.7 MPa	8800 psi	
Elongation at Break	5.8 %	5.8 %	
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	75.0 °C	167 °F	Deflection Temp at unknown load

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+11 ohm-cm	2.50e+11 ohm-cm	
	@Temperature 93.0 °C	@Temperature 199 °F	
	4.40e+13 ohm-cm	4.40e+13 ohm-cm	
	@Temperature 66.0 °C	@Temperature 151 °F	

Electrical Properties	1.00e+16 ohm-cm Metric	1.00e+16 ohm-cm English	Comments
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Dielectric Constant	3.57	3.57	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.021	0.021	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Pot Life	80 - 120 min	80 - 120 min	

Descriptive Properties	Value	Comments
Hardening Time (min)	60-240	castings
	720-2880	adhesive
Parts by Weight (pbw)	100	AboCast
	40	AboCure

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