

Abatron AboCast/AboCure 7606-1 Epoxy

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

Material Notes:

AboCast 7606-1 is a transparent, light amber resin with a weight of 9.5 lbs/gallon and a viscosity of 2100 cps approx. @ 25°C. AboCure 7606-1 is a transparent, light amber converter with a weight of 7.9 lbs/gallon and a viscosity of 500 cps approx. @ 25°C. AboCast/AboCure 7606-1 is a 2-component, dielectric, variable-ratio low-viscosity plasticized epoxy system. It is a clear dielectric casting, adhesive, and encapsulation compound. It is virtually unaffected by atmospheric conditions, soft and salt water, alkalis and diluted acids, several solvents, detergents, oils and greases. Final properties can be controlled by changing the AboCast/AboCure ratios: the highest rigidity, hardness, chemical, and heat resistance are offered by a 100/40 ratio. Higher AboCure ratios (up to 100/100 AboCast/AboCure) yield increasing flexibility, shock and thermocycling resistance, and adhesion to problem surfaces. It has tenacious adhesion to metals, ceramics, wood, fiberglass, masonry, and most materials to form permanent structural and dielectric bonds. Radiation resistance recommends the 7606-1 System in X-ray and other radioactive environments. Other Suggested Uses: Dielectric encapsulation and potting of electronic components, especially where toughness, transparency, mild reactivity, and non-critical proportioning are required; Shrink-free embedments and preparations of specimens for display or analytical purposes; General purpose adhesion, casting, and impregnation; Bonding or laminating substrates, plate, radiation screens, and other components in radioactive equipment.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-7606-1-Epoxy.php

Physical Properties	Metric	English	Comments
Density	0.947 g/cc	0.0342 lb/in ³	AboCure 7606-1
	1.14 g/cc	0.0411 lb/in ³	AboCast 7606-1

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	AboCast/AboCure ratio: 100/80 pbw
	64	64	AboCast/AboCure ratio: 100/100 pbw
	70	70	AboCast/AboCure ratio: 100/40 pbw
	55	55	AboCast/AboCure ratio: 100/100 pbw
	@Time 10.0 sec	@Time 0.00278 hour	
Tensile Strength at Break	62	62	AboCast/AboCure ratio: 100/80 pbw
	@Time 10.0 sec	@Time 0.00278 hour	
Flexural Strength	51.0 MPa	7400 psi	
Compressive Strength	82.7 MPa	12000 psi	
Izod Impact, Notched	101 MPa	14600 psi	
	0.262 J/cm	0.490 ft-lb/in	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 180 min	1.00 - 3.00 hour	
	@Temperature 80.0 - 110 °C	@Temperature 176 - 230 °F	
Pot Life	4320 - 11520 min	72.0 - 192.0 hour	(3-8 Days)
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Pot Life	16 - 24 min	16 - 24 min	
	@Temperature 60.0 - 80.0 °C	@Temperature 140 - 176 °F	
Pot Life	150 - 180 min	150 - 180 min	
	@Temperature 20.0 - 25.0 °C	@Temperature 68.0 - 77.0 °F	

Descriptive Properties	Value	Comments
Hardening Time (min)	180-480	
Parts by Weight (pbw)	100	AboCast
	43	AboCure

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