

Abatron AboCast 7802-1/AboCure 50-12 Epoxy

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

Material Notes:

AboCast 7802-1 is a clear resin with low viscosity (600-800 cps.) and a weight of 9.1 lbs/gallon. AboCure 50-12 is a clear converter for high rigidity, chemical, and temperature resistance (HDT: 101°C). It has low viscosity (22-30 cps) and a weight of 8.1 lbs/gallon. AboCast 7802-1/AboCure 50-12 has versatility and tenacious adhesion to metals, ceramics, glass, wood, and most rigid materials which permits permanent structural and dielectric bonds. Absence of volatiles and minimum shrinkage, typical of solventless epoxy systems, allow castings and masses of virtually any desired thickness. Suggested Uses: Multi-purpose casting, coating, and bonding for applications requiring high dielectric resistance, structural strength, and radiation resistance as well as resistance to weather, water, alkalis, diluted acids, fuels, and most common solvents; it was originally developed for FERMILAB.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-7802-1AboCure-50-12-Epoxy.php

Physical Properties	Metric	English	Comments
Density	0.971 g/cc	0.0351 lb/in ³	AboCure 50-12
	1.09 g/cc	0.0394 lb/in ³	AboCast 7802-1
Water Absorption	0.10 - 0.20 %	0.10 - 0.20 %	
Viscosity	300 - 500 cP	300 - 500 cP	blended

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
	@Temperature 100 °C, Time 10800 sec	@Temperature 212 °F, Time 3.00 hour	
	85	85	1/8 in thickness
	@Temperature 100 °C, Time 10800 sec	@Temperature 212 °F, Time 3.00 hour	
	75	75	1/8 in thickness
	@Time 86400 sec	@Time 24.0 hour	
	75	75	1/8 in thickness
	@Time 259000 sec	@Time 72.0 hour	
	80	80	
	@Time 3600 sec	@Time 1.00 hour	
	80	80	
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	⁸⁰ Metric	⁸⁰ English	Comments
	@Time 259000 sec	@Time 72.0 hour	
Tensile Strength at Break	82.7 - 96.5 MPa	12000 - 14000 psi	
Elongation at Break	5.0 - 7.0 %	5.0 - 7.0 %	
Flexural Strength	103 - 124 MPa	15000 - 18000 psi	
Compressive Strength	75.8 - 82.7 MPa	11000 - 12000 psi	

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.7 - 18.7 kV/mm	400 - 475 kV/in	

Processing Properties	Metric	English	Comments
Pot Life	45 min	45 min	100 g

Descriptive Properties	Value	Comments
Parts by Weight (pbw)	100	AboCast 7802-1
	13	AboCure 50-12

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