

Abatron AboCast 7802-1/AboCure 7804-3 (40 pbw) 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 7804-3 a clear, slightly accelerated converter for lower rigidity. It has an HDT of 60°C, variable ratio, a viscosity of 300 cps., and a weight of 7.8 lbs/gallon. AboCast 7802-1/AboCure 7804-3 has versatility, many variable-ratio possibilities, and a 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-7804-3-40-pbw-Epoxy.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	AboCure 7804-3
	1.09 g/cc	0.0394 lb/in ³	AboCast 7802-1
Water Absorption	0.10 - 0.20 %	0.10 - 0.20 %	
Viscosity	450 - 650 cP	450 - 650 cP	blended

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
	@Temperature 100 °C, Time 10800 sec	@Temperature 212 °F, Time 3.00 hour	
	80	80	1/8 in thickness
	@Temperature 100 °C, Time 10800 sec	@Temperature 212 °F, Time 3.00 hour	
	30	30	1/8 in thickness
	@Time 86400 sec	@Time 24.0 hour	
	40	40	1/8 in thickness
	@Time 259000 sec	@Time 72.0 hour	
	50	50	
	@Time 86400 sec	@Time 24.0 hour	
	70	70	
	@Time 259000 sec	@Time 72.0 hour	

Tensile Strength at Break Mechanical Properties	41.4 - 55.2 MPa Metric	6000 - 8000 psi English	Comments
Elongation at Break	10 - 18 %	10 - 18 %	
Flexural Strength	62.1 - 89.6 MPa	9000 - 13000 psi	
Compressive Strength	48.3 - 62.1 MPa	7000 - 9000 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	240 min	240 min	100 g

Descriptive Properties	Value	Comments
Parts by Weight (pbw)	100	AboCast 7802-1
	40	AboCure 7804-3

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