

## Abatron AboCast 7802-1/AboCure 50-3 (80 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 50-3 is a clear, slow 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 50-3 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-50-3-80-pbw-Epoxy.php](http://www.lookpolymers.com/polymer_Abatron-AboCast-7802-1AboCure-50-3-80-pbw-Epoxy.php)

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in <sup>3</sup>	AboCure 50-3
	1.09 g/cc	0.0394 lb/in <sup>3</sup>	AboCast 7802-1
Water Absorption	0.20 - 0.40 %	0.20 - 0.40 %	
Viscosity	400 - 600 cP	400 - 600 cP	blended

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	1/8 in thickness
	@Temperature 100 °C, Time 10800 sec	@Temperature 212 °F, Time 3.00 hour	
	70	70	1/8 in thickness
	@Temperature 100 °C, Time 10800 sec	@Temperature 212 °F, Time 3.00 hour	
	10	10	1/8 in thickness
	@Time 86400 sec	@Time 24.0 hour	
	30	30	1/8 in thickness
	@Time 86400 sec	@Time 24.0 hour	
	45	45	1/8 in thickness
	@Time 259000 sec	@Time 72.0 hour	
	65	65	1/8 in thickness
	@Time 259000 sec	@Time 72.0 hour	

Tensile Strength at Break Mechanical Properties	13.8 - 20.7 MPa Metric	2000 - 3000 psi English	Comments
Elongation at Break	>= 20 %	>= 20 %	
Flexural Strength	13.8 - 20.7 MPa	2000 - 3000 psi	
Compressive Strength	13.8 - 20.7 MPa	2000 - 3000 psi	

Electrical Properties	Metric	English	Comments
Dielectric Strength	11.8 - 15.7 kV/mm	300 - 400 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
	80	AboCure 50-13

## Contact Songhan Plastic Technology Co.,Ltd.

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