

## Abatron AboCast 8502-7/AboCure 8502-7 Colorless, Low-Exotherm Epoxy Casting Compound

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

### Material Notes:

AboCast 8502-7/AboCure 8502-7 is a rigid, heat cured, colorless, low-exotherm epoxy casting compound for larger masses. It is a 2-component structural and dielectric liquid system with extremely low shrinkage. It represents the highest level of thermal, chemical, and physical properties available together with colorlessness, lowest shrinkage, and low viscosity for easy casting. Very large, massive 8502-7 castings can harden in several days at room-temperature, or very slightly above it, for best colorlessness. This system also offers the best dielectric properties. Suggested Uses: Transparent Casting, Embedding, Encapsulation, Potting, and Bonding. Casting display or experimental models. Precise reproduction of anatomical or scientific models. Embedding organic, geologic, or metallurgic specimens for commercial or scientific uses. Encapsulation of electric, radioactive, or delicate components. Preservation or repair of artistic and historical objects. High-performance transparent table tops.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Abatron-AboCast-8502-7AboCure-8502-7-Colorless-Low-Exotherm-Epoxy-Casting-Compound.php](http://www.lookpolymers.com/polymer_Abatron-AboCast-8502-7AboCure-8502-7-Colorless-Low-Exotherm-Epoxy-Casting-Compound.php)

Physical Properties	Metric	English	Comments
Water Absorption	0.40 % @Time 28800 sec	0.40 % @Time 8.00 hour	boil
Viscosity	2000 cP	2000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Tensile Strength, Ultimate	68.3 MPa	9910 psi	
Flexural Strength	105 MPa	15200 psi	
Flexural Modulus	2.28 GPa	330 ksi	
Compressive Strength	116 MPa	16800 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 - 118 °C	221 - 244 °F	Deflection Temp at unknown load

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

Processing Properties	Metric	English	Comments
	120 - 240 min	2.00 - 4.00 hour	

<b>Cure Time</b> Processing Properties	<b>Metric</b> @ Temperature 100 °C	<b>English</b> @ Temperature 212 °F	<b>2nd step</b> Comments
	120 - 240 min	2.00 - 4.00 hour	optional 3rd step
	@Temperature 125 °C	@Temperature 257 °F	
	960 - 1200 min	16.0 - 20.0 hour	1st step
	@Temperature 70.0 °C	@Temperature 158 °F	
Pot Life	4320 min	4320 min	(3 days)

<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>
Acetone Absorption (%)	1.2	3 hr. boil
Color	Clear	
Parts by Weight (pbw)	100	AboCast
	73	AboCure

## Contact Songhan Plastic Technology Co.,Ltd.

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