

Abatron AboCast 8502-6/AboCure 8502-6 Colorless, Low-Exotherm Epoxy Casting Compound

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

Material Notes:

AboCast 8502-6/AboCure 8502-6 is a flexible, colorless, low-exotherm epoxy casting compound for spherical masses up to 2000 grams. It is a 2-component structural and dielectric liquid system with low shrinkage. It is good for embedding very delicate specimens and components that are very sensitive to heat, pressure, and chemical attack. Its hardening is so slow that small castings may remain fluid for over 30 hours at room temperature. Slicing for microscopy is very easy with it, especially in the first cure stage, where the Shore D hardness is still below 60-70. It is also used with 8502-5, wither blended with it for intermediate properties, or as the base layer in larger and thicker castings where some flexibility and thermocycling resistance is desirable under a harder surface. 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-8502-6AboCure-8502-6-Colorless-Low-Exotherm-Epoxy-Casting-Compound.php

Physical Properties	Metric	English	Comments
Water Absorption	3.9 %	3.9 %	boil
	@Time 28800 sec	@Time 8.00 hour	
Viscosity	300 cP	300 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Tensile Strength, Ultimate	17.94 MPa	2602 psi	
Flexural Modulus	0.0138 GPa	2.00 ksi	
Compressive Strength	33.41 MPa	4846 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	32.0 - 40.0 °C	89.6 - 104 °F	Deflection Temp at unknown load

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

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	2nd step

Processing Properties	@Temperature 50.0 °C Metric	@Temperature 122 °F English	Comments
	60.0 - 360 min	1.00 - 6.00 hour	optional 3rd step
	@Temperature 80.0 °C	@Temperature 176 °F	
	1440 min	24.0 hour	1st step
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	480 - 720 min	480 - 720 min	or longer

Descriptive Properties	Value	Comments
Acetone Absorption (%)	26.3	3 hr. boil
Color	Clear	
Parts by Weight (pbw)	100	AboCast
	30	AboCure

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