

Abatron AboCast 8502-5/AboCure 8502-5 Colorless, Low-Exotherm Epoxy Casting Compound

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

Material Notes:

AboCast 8502-5/AboCure 8502-5 is a rigid, colorless, low-exotherm epoxy casting compound for spherical masses up to 500 grams. It is a 2-component structural and dielectric liquid system with extremely low shrinkage. The size of its castings is limited by its exotherm (heat of reaction) in bulky casings. In such cases, casting is done in successive thinner layers (to avoid excessive exotherm) until the desired thickness is reached. It gives superior decorative and laboratory embedments and table- and counter-top castings for restaurants and bars. Lower cost versions are known as "decoupage" resins. Many faster-curing versions are also available. 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-8502-5AboCure-8502-5-Colorless-Low-Exotherm-Epoxy-Casting-Compound.php

Physical Properties	Metric	English	Comments
Water Absorption	1.1 %	1.1 %	boil
	@Time 28800 sec	@Time 8.00 hour	
Viscosity	400 cP	400 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Tensile Strength, Ultimate	67.78 MPa	9831 psi	
Flexural Strength	103.05 MPa	14946 psi	
Flexural Modulus	3.52 GPa	510 ksi	
Compressive Strength	99.547 MPa	14438 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	60.0 - 80.0 °C	140 - 176 °F	Deflection Temp at unknown load

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

Processing Properties	Metric	English	Comments
	60.0 - 120 min	1.00 - 2.00 hour	

Cure Time Processing Properties	Metric @ Temperature 65.0 °C	English @ Temperature 149 °F	2nd step Comments
	60.0 - 360 min	1.00 - 6.00 hour	
	@Temperature 80.0 - 110 °C	@Temperature 176 - 230 °F	optional 3rd step
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	1st step
Pot Life	300 - 360 min	300 - 360 min	

Descriptive Properties	Value	Comments
Acetone Absorption (%)	8.8	3 hr. boil
Color	Clear	
Parts by Weight (pbw)	100	AboCast
	30	AboCure

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