

Abatron AboCast/AboCure 4-4/50-12 Casting Epoxy for Tooling

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

Material Notes:

Standard casting compound for molds or patterns of any size, that can be machined with common metal working tools, engraving and reproduction molds. Main Advantages: Fast Best rigid, chemical, and heat properties with room temperature cure. Main Drawbacks: Too fast for thick castings (>1 inch). Needs precise ratios. Processing: 100/5 ratio. Room temperature cure 2 to 8 hours, optional post-cure 2 to 4 hours at 80 to 120°C. Information provided by Abatron.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-4-450-12-Casting-Epoxy-for-Tooling.php

Physical Properties	Metric	English	Comments
Water Absorption	0.10 - 0.50 %	0.10 - 0.50 %	24-200 hours
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 90	>= 90	
Tensile Strength at Break	49.6 MPa	7200 psi	
Elongation at Break	1.8 %	1.8 %	
Flexural Strength	60.7 MPa	8800 psi	
Compressive Strength	108 MPa	15700 psi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.586 - 0.669 W/m-K	4.06 - 4.64 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	70.0 °C	158 °F	
	115 °C	239 °F	Deflection temperature after post-cure

Processing Properties	Metric	English	Comments
Pot Life	30.0 - 45.0 min @Temperature 25.0 °C	30.0 - 45.0 min @Temperature 77.0 °F	1-2 lbs

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