

Abatron AboCast/AboCure 4-4/50-17 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: Easy ratios Longest pot life Largest castings Lowest exotherm Main Drawbacks: Needs heat cure and precise ratios Processing: 100/10 ratio. Room temperature cure 24 hours and 2 hours at 100°C, optional post-cure 2 hours at 120°C and a second optional post-cure 2 hours at 150°C. Information provided by Abatron.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCastAboCure-4-450-17-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	57.9 MPa	8400 psi	
Elongation at Break	1.0 %	1.0 %	
Flexural Strength	73.8 MPa	10700 psi	
Compressive Strength	194 MPa	28200 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	120 - 130 °C	248 - 266 °F	
	150 - 160 °C	302 - 320 °F	Deflection temperature after post-cure

Processing Properties	Metric	English	Comments
Pot Life	300 - 480 min	300 - 480 min	1-2 lbs
	@Temperature 25.0 °C	@Temperature 77.0 °F	

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