



53 C Otis Street
West Babylon, NY 11704
Tel. 631-920-5079 Fax. 631-920-0503
E-mail SalesSET@optonline.net
www.SET-mfg.com

Set-Cast 1-501

Set-Cast 1-501 is an unfilled solids epoxy resin casting or impregnating material.

<u>Properties-Uncured:</u>	<u>Part A</u>	<u>Part B</u>
Color, Visual	Clear	Amber
Viscosity, cps	12000	700
Specific Gravity	1.16	0.97
Mix Ratio, by weight	100	18-20
Mixed Viscosity,cps@25 °C	3000	
Pot Life @25 °C, hours	1/2	
Shelf Life @25 °C, months	12	

Physical Properties-Cured:

Durometer (Shore D)	87
Coefficient of Thermal Expansion, °C	75×10^{-6}
Thermal Conductivity, BTU-in(ft)(hr)(°F)	1.6
Service Temperature, °C	155
Tensile Strength, ,psi	12,000
Tensile Elongation%	3.0
Flexural Strength, psi	20,000

Electrical:

Dielectric Strength, volts/Mil	470
Dielectric Constant, 1Khz	4.0
Dissipation Factor, 1Khz	0.026
Volume Resistivity, ohm-cm	1×10^{15}

Mixing Instruction: Weight out the required amount of resin to curing agent. Mix both parts together ,scraping both the sides and bottom of container to insure proper blending. Evacuate for 2-5 minutes if void free casting are required. Pour into cavity.

Cure: Masses 1/2lb or under 2hours @70 °C Post Cure 2 hours @100 °C

Masses to 2 lbs 2 hours @60 °C Post cure 2 hours @100 °C

Masses over 2 lbs: Overnight at room temperature, Post cure 2 hrs @ 75 °C, plus 2 hrs at 100 °C

See back of Data Sheet for Warranty Information

Warranty

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Silicone & Epoxy Technology

Phone: 631-920-5079 Fax: 631-920-0503

Place Orders To: SalesSET@optonline.net

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