

Set-Cast 1160

UL 94V0 RATED EPOXY COMPOUND, ROOM TEMPERATURE CURE

Set-Cast 1160 is a general-purpose epoxy system designed for 1:1 mix ratio for easy of dispensing by hand or machine. **Set-Cast 1160** is a room temperature cure system that will cure in 24 hours. It may be heated to accelerate cure. Material meets UL 94VO.

PROPERTIES – UNCURED

	(Part A)	(Part B)
Color, visual	Black	Neutral
Viscosity, ASTM-D-2393 (c.p.s. @ 25°C)	7-10,000	5-7000
Specific Gravity	1.4	1.5
Mix Ratio (volume)	1:1	
Mixed Viscosity, ASTM-D-2393 (@ 25°C)	5-8000	
Pot Life @ 25°C (100 grams)	90 minutes	
Shelf Life @ 70°F	6 Months, Store in a Cool, Dry area, Rotate Weekly.	

PROPERTIES – CURED

Hardness, ASTM-D-2240(Durometer)	Shore D 65 - 70
Tensile Strength, ASTM-D-638	8,500 psi
Tensile Elongation, ASTM-D-638	6 %
Compressive Strength ASTM-D 695	9,000 psi
Flexural Strength, ASTM-D-790	9,500 psi
Coefficient of Thermal Expansion	56×10^{-6}
Heat Distortion Point	80°C
Services Temperature	105°C
Water Absorption	0.08%
Dielectric Strength, ASTM-D-149 (volts/mil)	420
Dielectric Constant, ASTM-D-150	3.5
Dissipation Factor, ASTM-D-150	0.03
Volume Resistivity, ASTM-D-257 (ohm-cm)	1×10^{15}
Thermal Conductivity, BTU (in)/ (ft ²) (hr) (°F)	6

MIXING INSTRUCTIONS:

Pre-mix Part A and Part B separately, then measure 1:1 by volume (A to B). Mix thoroughly scraping the sides and bottom of the container. Evacuate and then pour into mold or cavity.

CURE SCHEDULE:

Room temperature cure @75°F with full properties after 24 hours.

To accelerate cure, allow 2 hours @ room temperature, then 2 hours @ 125°F.

Warranty

Silicone & Epoxy Technology NY, Inc. accepts no liability, in negligence or otherwise, in this communication. Under no circumstances shall the company be liable for incidental, consequential or other damages from alleged negligence, breach of warranty, strict liability or any other theory, arising out of the use or handling of this product. The sole liability shall be the purchase price of the product. You should test the material to determine if the material is suitable, and/or claims are valid, in your particular circumstances. None of the possible or suggested uses of the materials in this communication are licensed under any Silicone & Epoxy Technology patent covering such use or a recommendation for use of such materials in the infringement of any patent.