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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 (File # E164275).

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	12 months	

PROPERTIES – CURED

Hardness, ASTM-D-2240(Durometer).....	Shore D 82
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.

See back of Data Sheet for Warranty Information

Warranty

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