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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 94V0 (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 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.

See back of Data Sheet for Warranty Information

Warranty

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