

POLYCAST INDUSTRIES, INC.

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POLYCAST 290

Epoxy Casting Compound Room Temperature Cure

DESCRIPTION:

Polycast 290 is a 100% solids epoxy system. It is a filled, low cost, general purpose encapsulant. Polycast 290 is designed for room temperature cure, and has excellent moisture resistance. It is also available as a fast cure system. PC 290 is machine dispensible.

PROPERTIES – UNCURED	(Part A)	Part B
Color, visual	Orange	Clear
Viscosity, ASTM-D-2393 (c.p.s. @ 25° C)	7-10,000	5-700
Specific Gravity	3.63	0.96
Mixed Specific Gravity	2.77	
Mix Ratio (weight)	100:3	
Mixed Viscosity, ASTM-D-2393 (@ 25° C)	5-8000	
Pot Life @ 25°C (100 grams)	40 minutes	

PROPERTIES - CURED

PHYSICAL

Shore D 82
8,500 psi
2 %
9,500 psi
20 x 10 ⁻⁵
80°C
0.08%
419
3.5
0.035
1×10^{14}
2

MIXING INSTRUCTIONS

Pre-mix Part A and Part B separately. Then measure 100:7.5 by weight (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.