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POLYCAST-205

EPOXY CASTING COMPOUND, ROOM TEMPERATURE CURE

DESCRIPTION

P.C.205 is a 100% solids epoxy system. It is a filled, low cost, general purpose epoxy encapsulant. Polycast 205 is designed in such a way that the mix ratio is 4:1 by volume. Room temperature. Excellent moisture resistance. Also machine dispensable.

PROPERTIES – UNCURED

	Part A	Part B
Color , visual	Black	Clear
Viscosity, ASTM-D-2393 (c.p.s. @ 25° C)..	7-10,000	2000
Specific Gravity	1.5	1.0
Mix Ratio (volume)	4:1	
Mixed Viscosity, ASTM-D-2393 (@ 25° C)	3-4000	
Pot Life @ 25°C (100 grams)	40 minutes	
Shelf Life @ 70° F	12 months minimum	

PROPERTIES – CURED

PHYSICAL

Hardness, ASTM-D-2240(Durometer).....	Shore D 82
Tensile Strength, ASTM-D-638	8,500 psi
Tensile Elongation, ASTM-D-638	6 %
Flexural Strength, ASTM-D-790.....	9,500 psi
Coefficient of Thermal Expansion	20 x 10 ⁻⁵
Heat Distortion Point.....	80°C
Water Absorption.....	0.08%
Dielectric Strength, ASTM-D-149 (volts/mil)	425
Dielectric Constant, ASTM-D-150	3.6
Dissipation Factor, ASTM-D-150.....	0.035
Volume Resistivity, ASTM-D-257 (ohm-cm).....	1 x 10 ¹⁴
Thermal Conductivity, BTU's.....	6

MIXING INSTRUCTIONS

Pre-mix Part A and Part B separately. Then measure 4:1 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.