

## POLYCAST INDUSTRIES, INC.

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# **POLYCAST-250**

## FLEXIBLE, LOW CTE, SHOCK RESISTANT EPOXY COMPOUND

## **DESCRIPTION**

PC 250 is a flexible, non-abrasive filled 100% solids epoxy system. It is a resin which exhibits low coefficient of thermal expansion and exceptional shock resistance. PC 250 is designed in such a way that the mix ratio is 1:1 by volume. It is a room temperature cure, has excellent moisture resistance, and is also machine dispensable.

PROPERTIES – UNCURED	Part A	Part B
Color, visual	Clear	Black or White
Viscosity, ASTM-D-2393 (c.p.s. @ 25° C)	600	2500
Specific Gravity	1.12	1.29
Mix Ratio (volume)	1:1	
Mixed Viscosity, ASTM-D-2393 (@ 25° C)	900-1500	
Pot Life @ 25°C (100 grams)	15-20 minute	S
Shelf Life @ 70° F	12 months	

#### PROPERTIES – CURED

Hardness, ASTM-D-2240(Durometer)	Shore A 70
Tensile Strength, ASTM-D-638	3,500 psi
Tensile Elongation, ASTM-D-638	25%
Coefficient of Thermal Expansion	$7 \times 10^{-6}$
Water Absorption	0.1%
Dielectric Strength, ASTM-D-149 (volts/mil)	370
Dielectric Constant, ASTM-D-150	4.5
Dissipation Factor, ASTM-D-150	0.08
Volume Resistivity, ASTM-D-257 (ohm-cm)	$7 \times 10^{12}$
Thermal Conductivity, (BTU*in)/(hr*ft <sup>2</sup> *°F)	3.5
Temperature Class	В

#### **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. Demold time @ 75°F - 4 hours