



POLYCAST INDUSTRIES, INC.

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POLYCAST 8300

SINGLE-COMPONENT EPOXY CASTING SAND COMPOUND

DESCRIPTION

PC 8300 is an epoxy coated material designed for casting & potting. It is designed so that there is no advance preparation before use. It has high thermal conductivity and helps dissipate heat around electrical components.

PROPERTIES – UNCURED

Color , visual	Green
Filler content %	91-95
Appearance.....	Dry sand granules
Specific gravity.....	2.45
Particle size.....	<0.09
Shelf Life @ 70° F	6 months

PROPERTIES – CURED

Moisture Absorption (24 hrs).....	0.51
Linear Shrinkage.....	0.24
Thermal Conductivity (cal x cm ² /sec x cm °C).....	9.1 x 10 ⁻⁴
Fill Volume.....	>60%
Dielectric Constant, ASTM-D-150	4.2
Dissipation Factor, ASTM-D-150.....	0.13
Volume Resistivity, ASTM-D-257 (ohm-cm).....	2.1 x 10 ¹⁴

APPLICATION INSTRUCTIONS

PC 8300 handles like dry granular sand. Fill around the parts to be potted. Any lumps may easily be broken. Vibration may be used to help fill small voids in the material.

(Packaged 12lb/gal)

CURE SCHEDULE

Standard cure: 4 hrs. @ 150°C.

Alternate method: 8 hrs. @ 125°C.

All data given in this bulletin is based on our own research and research of others. They are believed to be accurate, however, no guarantee of accuracy is made. Product described is sold without warranty, except conformity to specifications, and on condition that purchasers shall determine suitability for their particular purpose.