

Replicast 866 Model Forming Epoxy

Excellent Electrical, Chemical & Moisture Resistance

Provides 500°F Service

- **Room Temp. Cures**
- **Accurate**
- **Durable**
- **Machinable**
- **Easily Dispensable**



Mold for making a Heating Coil Insulator

Replicast 866 will form highly detailed, 500°F epoxy models, molds and castings.

Its Easy! Just mix and pour into a suitable mold.

User friendly, 100% solids. No volatiles. No solvents. No out-gassing.

Replicast 866 will cure at room temperature to form highly detailed, epoxy models, prototypes, patterns, molds, light weight parts, etc.

Replicast 866 is resistant to most chemicals and solvents and is electrically non-conductive.

Can be used as a heat insulating potting compound.

Replicast 866 is exceptionally easy to machine or carve into highly complex shapes, from cast blanks.

Replicast 866 maintains a high degree of accuracy and durability. Its economical and ideal for mold making applications.

Users Report:

- Replicast casts molds that were used for casting high performance epoxies at 450°F.
- Replicast potted delicate electronic assemblies and provided the thermal insulation required for temperature recording devices.

These devices were placed on conveyor belts to record the temperatures the parts experienced during processing. These conveyor belts were 200-300 feet long and there was no other way to obtain the required data.

PRODUCT	866
Maximum Temp (°F)	500
Density (gm/cc)	0.8
Hardness (Shore D)	60
Tensile Strength (psi)	6000
Thermal Conductivity *	1.5
Thermal Expansion ($10^{-5}/^{\circ}\text{C}$)	2.5
Dielectric Strength (volts/mil)	500
Volume Resistivity (ohm cm)	10^{15}
Heat Distortion ($^{\circ}\text{C}$)	200
Viscosity (cps)	10,000
Dissipation Factor (@100kc)	0.015
Dielectric Constant (@100kc)	3.5
Elongation %	3
Thermal Stability % (1000 hr. @ 200 $^{\circ}\text{C}$)	0.5
Shrinkage (% max.)	0.2
Moisture Absorption % (30 days @ 50 $^{\circ}\text{C}$)	0.25
Components Color	2 - Tan
Mix Ratio	100/12
Cure (Hr @ Room Temp.)	16

* Thermal Conductive Units = Btu-in/ Hr. Ft² °F

Availability:

Replicast 866-1 Pint Kit

Replicast 866-2 Gal. Kit

Pre-Measured Kits

Epoxy-Eez™ in 10 gms., 25 gms. and 50 gms. units.

Quantity Prices and Custom Formulations on request.



COTRONICS CORPORATION

www.cotronics.com 131 47th St. Brooklyn, New York 11232 (718) 788-5533 Fax (718) 788-5538