



POLYMARK C140
One-Component Thermally
Conductive Epoxy Potting System

Product Description:

Polymark C140 is a one-component, heat curing, epoxy potting system. It is designed to offer excellent environmental protection for electronic devices. Polymark C140 potting will adhere to a wide variety of materials making it an excellent choice for encapsulating metals, plastics, ceramics and other common electronic assembly materials. It also has very low shrinkage upon cure.

Polymark C140 has a medium viscosity to facilitate flow into most part assemblies. By moderately heating the material (<140°F) immediately prior to dispensing, high flow rates can be obtained. (It is not recommended to heat the material container.) Polymark C140 is non-abrasive to most metering and dispensing equipment and is resistant to settling.

Typical Product Handling Properties:	
CHARACTERISTIC	VALUE
Color:	Tan
Density (gram/cc):	1.86
Viscosity:	
@25°C	75,000 cps
@57°C	8,000 cps
Cure Schedule:	
@ 100°C	30 minutes

Typical Cured Physical Properties	
CHARACTERISTIC	VALUE
Color:	Tan
Hardness (Shore scale):	D-90
Solids Content:	100%
Glass Transition Temp.:	95°C
Moisture Absorption (24hrs):	0.05%
Temperature Rating Guide:*	155°C
Dielectric Strength:	>400 volts/mil
Coefficient of Thermal Conductivity:	0.8 Watts/M°C

*Is based on average design requirements and not intended as a guarantee of suitability for all applications operating at that temperature.

Shelf Life:

Polymark C140 has a shelf life of 8 weeks when stored in sealed containers at 25°C. Higher storage temperatures will shorten the shelf life. While the system is resistant to settling, slight settling may occur with higher storage temperatures and/or extended storage times. In the event of settling, slow agitation is recommended to re-disperse. Contact Polymark for additional information.

All C140 containers are labeled with the date of manufacture. Customers should use this date to insure inventory is used on a first in, first out basis.

Handling Safeguards:

Closely follow instructions on the labels of Polymark materials containing information on the hazards associated with each particular product. Most epoxy resin systems are skin and eye irritants and more serious health hazards may exist. Consult the Material Safety Data Sheet for further information.

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Important Notice to Users: Typical properties are shown in this technical bulletin and should not be used or taken as specifications. Contact Polymark prior to establishing specifications. The information given for product description, handling properties and cured physical properties are offered solely to assist the purchaser's own testing. Polymark, its sales agents and distributors make NO WARRANTY OF MERCHANTABILITY OF THE PRODUCT OR THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE. This product and all information supplied in connection with it is used at the purchaser's own risk, conditions of use being beyond Polymark's knowledge or control. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.