

# TECHNO POTTING™ 3047

## Epoxy potting compound

MIXING RATIO  
**100A : 11B**  
by weight

### CHARACTERISTICS

High dielectric resistance

Excellent aging properties

Can be applied manually or  
mechanically

Low shrinkage

Easy to use, non-corrosive  
ingredients

Meets the requirements of  
CAN/CSA C22.2 No 74-92

Insoluble after full cure

### DESCRIPTION

TECHNO POTTING™ 3047 is a two-part, 100% solid epoxy potting compound primarily formulated to encapsulate and protect electronic components.

Its physical properties make it an ideal material for applications subjected to extremely severe conditions (from -30°C to 150°C). This system also meets the European RoHS (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment) standard, making it a safe system for the user and the environment.

### INSTRUCTIONS

It is recommended to stir part A prior to use as some settling may occur during storage. Mix 11 parts B to 100 parts A by weight until a uniform color is obtained.

Components on which TECHNO POTTING™ 3047 will be employed must be dry and free from any contaminant, dust, etc. To ensure good results, it is recommended to vibrate parts during the potting operation.

**Do not apply material if temperature is below 13° C (55° F). Make sure ambient temperature is relatively dry (relative humidity below 70%) and that the components receiving material are above 13° C.**

Uncured material can be cleaned using our environmentally friendly POLY CLEANER™.

TYPICAL PROPERTIES (22 °C/72 °F, 200 g mass)	PART A	PART B	MIXTURE
VISCOSITY (Brookfield (cps))	25 000	550	8 000
COLOR	Black	Amber	Black
DENSITY (g/cm <sup>3</sup> )	1.70	1.02	1.59
MIXING RATIO BY WEIGHT	100	11	100/11
POT LIFE (ASTM D 2471-71)	30 minutes		
EXOTHERMIC CURVE (ASTM D 2471-71)	60 minutes		
PEAK EXOTHERMIC TEMPERATURE (ASTM D 2471-71)	140°C		

PHYSICAL PROPERTIES (solid state, 7 days after cure at 22°C / 72°F)		
TEST	METHOD	RESULTS
HARDNESS	ASTM D 2240	85 Shore D
TENSILE STRENGTH	ASTM D 638	28 MPa
ELONGATION	ASTM D 638	1.9%
COMPRESSIVE STRENGTH	ASTM D 695	91.2 MPa
FLEXURAL STRENGTH	ASTM D 790	44.1 MPa
MODULUS OF ELASTICITY	ASTM D 790	2675 MPa
LINEAR SHRINKAGE	ASTM D 2566	0.0010 po/po

## PRECAUTIONS

- FOR INDUSTRIAL USE ONLY.
- Consult material safety data sheet prior to use.
- Normal health and safety measures should be observed when handling this product.
- Ensure good ventilation.
- Wear gloves, safety glasses, and protective clothing.
- Do not use part A without its part B, and vice versa. Mix parts A and B separately before use.
- Once the container is opened, POLYMÈRES TECHNOLOGIES can no longer be held responsible for this product.
- Shelf life of this product in original containers is one (1) year from the date of purchase, under recommended storage conditions.
- Keep from freezing. Store this product at 22°C (72°F).

It is recommended to follow provincial and federal safety regulations. In case of eye contact, rinse well with water. In case of skin contact, rinse with soap and water. Keep away from children.

#### ASSUMPTION OF RISK

The customer assumes all risk and liability for the results obtained by the use of any POLYMÈRES TECHNOLOGIES product, including, without limiting the generality of the foregoing, the use of the CHILL EPOXY™ line of products, and the use of any process, whether in terms of general effectiveness, success, or failure, and regardless of any oral or written statement made by way of technical advice or otherwise, related to the use of any POLYMÈRES TECHNOLOGIES product.

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