

DESCRIPTION

TECHNO POTTING 8102 V0 is a two-component, 100% solids material specifically formulated to protect and encapsulate small electronic components that must meet a fire-retardant standard. With its low viscosity and convenient mixing ratio, TECHNO POTTING 8102 V0 is particularly suitable for applications using an automatic dispenser and static mixer.

This product is ideal for applications ranging from -40°C to 105°C, thanks to its elongation percentage, which allows the resin to accommodate the movement of metal or plastic casings. This system also complies with the European RoHS standard, which stands for "Restriction of the use of certain Hazardous Substances in electrical and electronic equipment," meaning the restriction of certain hazardous substances in electrical and electronic equipment.

This makes it a safe system for both the user and the environment.

CHARACTERISTICS

- Economical
- High dielectric resistance
- Excellent durability
- Can be applied manually or mechanically
- Minimal shrinkage
- Insoluble
- Easy to use
- Fast setting
- Good balance between hardness and flexibility

APPLICATIONS

Pieces to receive **TECHNO POTTING 8102 FR** must be clean and free of any contaminants.

It is recommended to mix parts A and B separately as some settling of material is normal after storage.

Mix equal volume of parts **A** et **B** and mix well until a uniform colour is obtained.

For best results it is recommended to vibrate parts during potting operations.

Uncured material can be cleaned with the solvent **T-901**.

Please consult **POLYMERES TECHNOLOGIES** for more details based on your application.



TYPICAL PROPERTIES (at 22°C)

		PART A	PART B	MIXED
Viscosity (cps)	ASTM D-2196 (Brookfield)	6 500	4 500	5 500
Specific gravity (g/cm ³)	ASTM D-1475	1.317	1.373	1.345
Mixing ratio	1. Weight	100	100	100/100
	2. Volume	1	1	1/1
Colour	Visual	Black	Amber	Black
Pot life (200 cc)	ASTM D-2471	60 minutes		
Time to peak exotherm (200 cc)	ASTM D-2471	110°C		
Exothermid temperature (200 cc)	ASTM D-2471	~ 90°C @ 2" thick (without filler)		
Exothermid temperature (200 cc)	ASTM D-2471	~ 45-65C @ 22" thick (with filler)		

PHYSICAL PROPERTIES (solid state) 7 days after cure at 22°C

TEST	METHOD	RESULTS	
Tensile strength	ASTM D-638 Type IV	Mpa*	22,9
Elongation	ASTM D-638 Type IV	%	8,7 %
Compressive strength	ASTM D-695	MPa	30,6
Flexural strength	ASTM D-790	MPa	12,6
Modulus of elasticity	ASTM D-790	MPa	No failure when 5% elongation is obtained in outer fibre
Linear shrinkage	ASTM D-2566	cm/cm	0,0017 cm
Hardness	ASTM D-2240	Shore D	71
			73

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Ensure proper ventilation.
- The ambient air must be relatively dry, ie: temperature above 13°C and relative humidity must be below 70%.
- Shelf life of product in original closed containers is **one (1) year**.
- Once the container is opened **POLYMÈRES** has no control or responsibility for the shelf life.
- 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.

GUARANTEE

Seller makes no warranty of any kind, express or implied, as to the merchantability, fitness for any particular purpose, or any other matter with respect to the product **TECHNO POTTING 8102**. Since conditions of use are beyond seller's control, buyer assumes all risk of use of this product. Under no circumstances will seller be liable for consequential or incidental damages arising out of the use of this product. Seller's sole obligation shall be to replace the product if found to be defective. It is the user's responsibility to determine the suitability for use of this product under the conditions present at the time of application. M.S.D.S. available upon request.

* 1 MPa = 145 lbs/po2



POLYMÈRES
technologies

TECHNO POTTING 8102

Epoxy potting compound

