POLYMÈRES
technologies

TECHNO POTTING 8102

Epoxy potting compound

DESCRIPTION

TECHNO POTTING 8102 is a two part epoxy compound 100% solids, primarily formulated to encapsulate and protect small electronic components.

Low viscosity and easy mixing ratio makes TECHNO POTTING 8102 an ideal component to use with automatic dispensers and/or static mixers.

The fast setting characteristics of TECHNO POTTING 8102 makes it possible to handle components as little as 24 hours after operations are completed.

Due to the relatively high exothermic reaction the encapsulation of large parts can be done only with the addition of large amount of aggregates (ie: sand).

This system meets the ROHS European standard which means "Restriction of the use of certain Hazardous Substances in electrical and electronic equipment". This makes the product safe for both the user and the environment as well.

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** 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.

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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	1.285	1.154	1.22
Mixing ratio	1. Weight	100	88	100/88
	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		

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 1 day at 23° C 7 days at 23° C	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.

* 1 MPa = 145 lbs/po2