POLYMÈRES technologies

TECHNO LAM 7000

EPOXY RESIN FOR FILAMENT WINDING METHODS AND INFUSION

DESCRIPTION

TECHNO LAM 7000 is a 100% reactive, two components epoxy resin. Its very low viscosity and optimal wetting properties make it an ideal compound for filament winding methods and/or infusion. TECHNO LAM 7000 is also indicated for composite parts and small to medium dimension molds manufacturing exposed to temperatures range between 22°C to 100°C.

CARACTÉRISTIQUES

- Excellent wetting properties
- Excellent temperature reistance
- Very low viscosity
- Compatible with fiberglass, carbon and kevlar
- Long pot life

APPLICATION

MAKE SURE TO MIX EACH PART A & B SEPARATELY BEFORE EACH USE MAKING SURE TO SCRAPE BOTTOM AND SIDES OF CONTAINER TO GET AN HOMOGENEOUS MIX OFF ALL THE RAW MATERIALS IN THE RESIN.

Make sure to precisely mix by weight (100 part A to 35 part B) and mix thoroughly with a metal spatula. Minimize as much as possible air entrapment. Only mix required quantity that can be used within indicated pot life.

It is recommended to let cure the parts for at least 24-48 hours at 22oC before demoulding, considering mass and design of part's mold.

After curing parts for 24-48 hours at 22oC, it is possible to proceed a post-cure to reach full cure of 45°C-50°C for 4 hours.
To increase physical properties we recommend a post-cure at 60°C.

It is recommended to use our demoulding agent **Techno Release 110** to facilitate the procedures, if applicable.

The uncured components can easily be cleaned by using **solvent 901**.

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

PRODUCTS	POT LIFE	MIXING RATIO	SPECIFIC DENSITY			HARDNESS
7000	30 MINUTES	100A/12B	A :1.093	B :0.98	MIXED :1.079	82 SHORE D
7000 MEDIUM	75 MINUTES	100A/20	A :1.093	B :0.970	MIXED : 1.070	82 SHORE D
7000 LPL	120 MINUTES	100A/34B	A :1.093	B :0.924	MIXED : 1.037	82 SHORE D

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TYPICAL PROPERTIES (at 22°C)

		PART A	PART B	MIXED
Viscosity	Brookfield (cps)	690	150	390
Pot life	Mass 200 cc	120 minutes at 22 °C		
Full cure		7 jours at 22 °C		

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

TEST	MÉTHOD	RÉSULTS	
Hardness	ASTM D 785	SHORE D	82
Tensile strength	ASTM D 638	MPa	68
Impact resistance	ASTM D 256 81	J/m	41,5
Elongation	ASTM D 638	%	9,5
Compressive strength	ASTM D 695	MPa	74
Flexural strength	ASTM D 790	MPa	98
Glass transition (Tg)	ASTM D E1356-08	F°/C°	175/80

NOTE: The samples have been tested on a resin, without reinforcement, following full cure of 7 days at 22°C

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Normal health and safety precautions should be observed when manipulating material :

  - Use adequate ventilation system.

  - Wear protection equipment.
- **SHELF LIFE:** The shelf life on **POLYMÈRES TECHNOLOGIES'S** products begins from the date of invoice for that product shipment. Shelf life only pertains to containers that are unopened and in their original condition.
- Shelf life of product in original closed containers is **one (1) year**.
- 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.