

IMPREGNATION RESIN

DEFINITION

Unsaturated isophthalic polyester resin in styrene, pre-accelerated, thixotropic, with medium viscosity and reactivity. General-purpose resin for manual lamination or spray-up processes, particularly suitable for the construction of boats and other composite artifacts. It has an acceleration system that allows for rapid demolding times of the manufactured items, while achieving contained exothermic peaks. Contains a color-changing additive.

CHARACTERISTICS

Part A - Impregnation Resin:

- Chemical Nature: Isophthalic polyester resin
- Density: $1.10 \pm 0.03 \text{ g/cm}^3$
- Viscosity at 25°C: 600 - 700 mPa.s (Brookfield RVDV-II+, RV#2, 20 rpm)
- Thixotropic Index at 25°C: ≥ 2.5 (Brookfield RVDV-II+, RV#2, 2/20 rpm)
- Dry Residue: $\geq 50\%$

Ready-to-use Product:

- Tensile Strength: 78 Mpa (ASTM-D-638)
- Elongation at Break: 4.5% (ASTM-D-638)
- Tensile Modulus of Elasticity: 3400 Mpa (ASTM-D-638)
- Heat Distortion Temperature (HDT): 80°C (ISO 75/A)
- *Gel Time at 25°C: 25 – 30 min (100g of resin, 1.5 g catalyst)
- *Exothermic Peak: 140-160°C

** informative data, not part of the product specifications*

***typical values of pure, unreinforced resin, providing general information, not part of the product specifications. Test on cured samples, held 24 hours at ambient temperature and then 3 hours at 80°C.*

MIXTURE PREPARATION

Catalyze at 2% with the appropriate liquid catalyst. At temperatures below 15 °C, increase the catalyst percentage to 2–3% to facilitate drying times, if necessary.

Mix well until a homogeneous compound is obtained.

STORAGE

Store in a cool, dry place below 25°C.

The effectiveness of our products is based on practical experiences and research work carried out in our laboratories; nevertheless we accept no liability for work carried out following our instructions being clear that the final result depends in all cases on a series of unforeseeable factors.

* For any information about product codes or packs, please see our catalogue, our price list or contact us.