

polimal[®] 143 AWTP-2

unsaturated polyester resin

Application

Polimal 143 AWTP-2 is recommended for the production of the laminates with hand or spraying method. It is recommended for manufacturing the sport and tourist floating equipment, bathtubs, shower bases, tanks etc.

Resin characteristics

Polimal 143 AWTP-2 is constructional, ecological resin with low styrene emission, terephthalic, accelerated. It has colourful curing indicator system. This resin is used for manufacturing relatively thick laminates (to about 5 mm).

Parameters

- very good wettability of glass fibre,
- low curtaining from vertical walls,
- it has beneficial curing characteristics, after curing it obtains dry surface.

The colourful curing indicator system allows to control the presence of hardener, visual inspection of wettability of fiberglass with resin and resin curing.

Typical resin parameters Polimal 143 AWTP-2.

Tested parameter/standard	Unit	Value
Viscosity (at 25°C) acc. to DIN 53015	mPa s	190-220
Gel time (25°C) acc to ISO 2535	min	20-30
Styrene content	%	43-46
Flexural strength acc. to ISO 178	MPa	93
Tensile strength acc. to ISO 527	MPa	52
Tensile modulus acc. to ISO 527	MPa	3700
Elongation at bending acc. to ISO 527	%	2
Impact resistance, min. acc. to ISO 179	kJ/m ²	6
Heat resistance acc to ISO 75	°C	80
Barcol hardness acc. to ASTM D 2583	°B	42
Guarantee period	months	3

gel time: 1% (MEKP) Luperox[®] K-1

Storage conditions

The resin should be stored in closed original containers, in dry, well ventilated and shaded storage rooms adapted for storing inflammable materials at the temperature below 25°C.

Processing conditions

The resin of the temperature above 15°C is required for processing. Mix the resin in the tank or in the unit packages before using.

Good curing requires the ambient temperature above 18°C and the low air humidity.

Polimal 143 AWTP-2 is accelerated resin with relatively short and very stable gel time while storing. Good curing conditions can be achieved while using 2% of MEKP hardener. The gel time can be controlled with changing the amount of hardener, the best within the range 1 - 2%.

Version: HT/07.08.2013/eng. page 1

Polimal[®] is the trade name reserved for unsaturated polyester resins produced by **Zakłady Chemiczne „Organika - Sarzyna” S.A.**

Luperox[®] is a trade name reserved for products **ARKEMA.**

Data and suggestions hereby contained are based on our own research and are believed to be reliable. However we cannot take any responsibility for direct and indirect effects and losses resulted from usage of our products. The user should check the quality, safety and product characteristic before it is used.

Note:

The information does not substitute Material Safety Data Sheet, Company Standard or Technical Specification, which are superior documents and available on request.