

TECHNICAL INFORMATION

POLIMAL[®]

1094 WTP-1

Application

Polimal 1094 WTP-1 is recommended for production of laminates as hand lay-up and spray-up, from which sport and tourist floating equipment, baths, paddling pools, tanks etc. are produced.

Resin characteristics

Polimal 1094 WTP-1 is constructional, moderately flexible, thixotropic, pre-accelerated, with colourful curing indicator, orthophthalic, unsaturated polyester resin. It is used for production of polyester-glass laminates with thickness to 5 mm. **Polimal 1094 WTP-1 is approved by Lloyd's Register.**

Typical parameters

Parameter	Unit	Value
Viscosity at 23°C Physica S 2/20 s ⁻¹ acc. to ISO 3219	mPa s	300÷400
Gel time at 25°C acc. to DIN 16945	min	19÷26
Tensile strength acc. to ISO 527	MPa	70
Flexural strength acc. to ISO 178	MPa	110
Tensile modulus acc. to ISO 527	MPa	4300
Elongation at break acc. to ISO 527	%	2
Heat deflection temperature (HDT) acc. to ISO 75	°C	63
Barcol hardness ASTM –D 2583-95	°B	45
Guarantee period	months	3

Reactivity is determined with 1g Luperox[®] K-1S added to 100g of resin.

Mechanical parameters refer to not reinforced resin curing for 24 hours at room temperature and post curing for 2 hours at 80°C.

Storage conditions

Polimal 1094 WTP-1 should be stored in close package in a dry, shady and cool places, adapted for storing flammable materials at temperatures not exceeding 25°C.

Processing conditions

The resin should be mixed before use. Good curing required ambient temperature above 18°C and low air humidity. It is possible to adjust gel time by varying of amount of hardener, the best within in the range of 1 – 2 %. The final curing could be optimize by postcuring at elevated temperatures.

Polimal[®] is the trade name reserved for unsaturated polyester resins produced by **CIECH - Sarzyna S.A.**

Luperox[®] is the trade name registered for products of **ARKEMA** company.

Data and suggestions included in this document are on the basis of our own tests and are considered by us as reliable. However, we cannot take any responsibility for actions and losses directly or indirectly resulted from using our products. User should check the product quality, safety and properties before its using.

Note:

The information does not substitute Material Safety Data Sheet or Technical Specification, which are superior documents and are available on the customer's request.