

TECHNICAL INFORMATION

POLIMAL[®]

104 N-1 P

Application

Polimal[®] 104 N-1 P is designed for production of goods reinforced by fiberglass or mineral fillers.

Resin characteristics

Polimal[®] 104 N-1 P is accelerated, orthophthalic, unsaturated polyester resin.

Advantages of using:

- good wetting and permeating of glass fiber,
- very good mechanical parameters, especially thermal resistance (HDT) and flexural strength.

Typical parameters

Parameter	Unit	Value
Viscosity at 23°C acc. to ISO 3219	mPa s	200 ÷ 250
Gel time at 25°C acc. to DIN 16945	min	25 ÷ 35
Tensile strength acc. to ISO 527	MPa	80
Flexural strength acc. to ISO 178	MPa	120
Flexural modulus acc. to ISO 178	MPa	3700
Elongation at break acc. to ISO 527	%	3,5
Impact strength, min acc. to ISO 179	kJ/m ²	15
Heat deflection temperature (HDT) acc. to ISO 75	°C	100
Barcol hardness ASTM -D 2583-95	°B	40
Guarantee period	months	3

Gel time with: 1,1% Luperox[®] K-1 S (MEKP)

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[®] 104 N-1 P 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 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.