

POLIMAL®

UNSATURATED POLYESTER RESIN

125 MP

Application

Polimal 125 MP is an unsaturated polyester resin, pre-accelerated based on isophthalic acid and neopentyl glycol, dissolved in styrene. **Iso-NPG resins** are recommended for the production of the goods with high resistant parameters as well as high heat resistance and water resistance.

Resin characteristics

It characterises with:

- pre-accelerated,
- contains methyl methacrylate,
- good wet-out rate of the glass fibre,
- increased chemical and heat resistance,
- relatively short gel time and good curing characteristics.

Typical parameters of Polimal 125 MP

Tested parameter/standard	Unit	Value
Viscosity, (at 25°C) acc. to ISO 3219	mPa s	500-600
Gel time (at 25°C)	min	10-20
Tensile strength acc. to ISO 527	MPa	70
Flexural strength acc. to ISO 178	MPa	120
Tensile modulus acc. to ISO 527	MPa	3800
Elongation at break acc. to ISO 527	%	2,5
Heat deflection temperature (HDT) acc. to ISO 75	°C	80
Barcol hardness ASTM-D 2583-95	°B	45
Shelf life	months	3

gel time with: 2% MEKP (Luperox K-1) acc. to DIN 16945

Curing for 24 hours at room temperature and post-curing for 2 hours at 80°C.

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 a temperature below 25°C.

Processing conditions

The resin required to be used for processing should have the temperature above 15°C.

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

Good curing conditions are received while using 1–2% MEKP.

Mix the resin before application.

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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.