

polimal[®]
unsaturated polyester resin**104 N-1****Application**

Polimal[®] 104 N-1 is recommended for production of goods reinforced with glass fibre and for resinous-mineral compositions.

Resin characteristics

Polimal[®] 104 N-1 is unsaturated polyester resin, orthophthalic, low-vicious, medium-reactive.

Advantages of the resin use

- low-vicious surface after curing,
- allows to insert a great amount of the filler,
- easier mixing and pouring out,
- very good resistant parameters of the cured resin (heat resistance, hardness)

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.

Typical parameters of Polimal 104 N-1

Tested parameter/standard	Unit	Value
Viscosity, at 25°C acc. to DIN 53015	mPa s	200-250
Gel time, at 25°C acc. to ISO 2535	min	14-24
Styrene content	%	41-43
Reactivity: from 25°C to 35 °C, from 25°C to temp. max (max), temp. max, acc. to DIN 16945	min	14-24 40 140-180
Tensile modulus acc. to PN-EN ISO 527-1 PN-EN ISO 527-2	MPa	3600
Bending strength acc. to PN-EN ISO 178	MPa	130
Unit elongation at break, min acc. to PN-EN ISO 527-1 PN-EN ISO 527-2	%	3,5
Heat resistance (HDT), acc. to PN-EN ISO 75-1 PN-EN ISO 75-2	°C	90
Barcol hardness acc. to ASTM D 2583	°B	40
Guarantee period	months	6

gel time with: 1,1 % MEKP [Luperox K-1]
1,0 % accelerator Co 1 %

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 –1,5 MEKP hardener as well as 1,5-2 % of 1 % cobalt accelerator (depending on the processing conditions).

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Note:

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