

TECHNICAL INFORMATION

POLIMAL[®]

109-32 PyK

Application

Polimal[®] 109-32 PyK is designed for production of resinous – mineral castings and polymer concrete.

Features

Polimal[®] 109-32 PyK is not accelerated, orthophthalic, unsaturated polyester resin.

Advantages of the resin usage:

- good miscibility and wetting of mineral fillers in the resin,
- good processing features,
- easier mixing and pouring the mixture into the mold.

Typical parameters

Parameter/Standard	Unit	Value
Viscosity at 25°C acc.to ISO 3219	mPa s	200 ÷ 300
Gel time at 25°C acc. to DIN 16945	min	7 ÷ 15
Tensile strength acc. to ISO 527	MPa	50
Flexural strength acc. to ISO 178	MPa	100
Tensile modulus acc. to ISO 527	MPa	3900
Elongation at break acc. to ISO 527	%	2,5
Heat Deflection Temperature (HDT) acc. to ISO 75	°C	60
Barcoll hardness ASTM-D 2583-95	°B	40
Guarantee period	month	3

Czas żelowania z : 2% Luperox[®] K-1S

Mechanical parameters refer to not reinforced resin curing for 24 hours at room temperature and post curing for 8 hours at 80°C.

Storage conditions

Polimal[®] 109-32 PyK should be stored in close package in a dry, shady and cool places at temperatures not exceeding 25°C.

Processing conditions

The resin should be mixed before use. The resin of the temperature above 15°C is required for processing. Good curing requires ambient temperature at least 18°C and low air humidity. The best curing conditions are obtained using 2% MEKP as hardener. 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.