

TECHNICAL INFORMATION

POLIMAL[®]

1058 P

Application

Polimal[®] 1058 P is recommended for production of polyester-glass laminates in the closed moulds (RTM).

Resin characteristics

Polimal[®] 1058 P is accelerated, of low viscosity, constructional, medium-flexible, unsaturated polyester resin based on DCPD.

Advantages of usage:

- very good processing features,
- good wettability of glass fiber and fillers,
- lower styrene emission in relation to standard orthophthalic resins,
- favourable curing characteristics (fast post-curing).

Typical parameters

Parameter	Unit	Value
Viscosity at 23°C acc. to ISO 3219	mPa s	150 ÷ 200
Gel time at 25°C acc. to DIN 16945	min	10 ÷ 20
Tensile strength acc. to ISO 527	MPa	55
Flexural strength acc. to ISO 178	MPa	80
Tensile modulus acc. to ISO 527	MPa	3600
Elongation at break acc. to ISO 527	%	1,5
Impact resistance, min acc. to ISO 179	kJ/m ²	7
Heat deflection temperature (HDT) acc. to ISO 75	°C	70
Barcol hardness ASTM –D 2583-95	°B	40
Guarantee period	months	3

Gel time with: 2% Luperox[®] K-1S

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[®] 1058 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. 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.

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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.