

POLIMAL®

UNSATURATED POLYESTER RESIN

VE-3MM P INF

Application

Polimal VE-3MM P INF is the unsaturated polyester resin recommended for production of polyester-glass laminates, particularly for processing by RTM and infusion method.

Features

Polimal VE-3MM P INF is pre-accelerated, vinyl ester based resin, with low viscosity and very good wet – out of glass fiber.

Typical parameters of **Polimal VE-3MM P INF**

Parameter/Standard	Unit	Value
Viscosity at 25°C acc.to ISO 2555, sp. 21; 100 rpm	mPa s	200÷250
Gel time at 25°C acc. to DIN 16945	min	30÷40
Temperature peak acc. to DIN 16945	°C	130 – 145
Tensile strenght acc. to ISO 527	MPa	61,8
Flexural strenght acc. to ISO 178	MPa	143
Flexural modulus acc. to ISO 178	MPa	3550
Tensile modulus acc. to ISO 527	MPa	3520
Elongation at breake acc.to ISO 527	%	2,1
Heat Deflection Temperature (HDT) acc. to ISO 75	°C	92,3
Barcoll hardness ASTM-D 2583-95	°B	40
Guarantee period	month	3

Curing conditions:

Cure with: 2% Luperox K-1 S

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

Storage conditions

Polimal VE-3MM P INF 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. 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 in the range of 1 – 2 %. The final curing could be optimized by postcuring at elevated temperatures.

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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.

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