

Technical information

Polimal® 1059-11 P-2

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POLIMAL® 1059-11 P-2 is an accelerated, non-thixotropic DCPD modified unsaturated polyester resin.

APPLICATION

POLIMAL® 1059-11 P-2 is designed for production of polyester glass laminates by infusion method.

PROPERTIES

- low viscosity
- better demoulding properties and lower shrinkage
- very good fibreglass wetting
- very good impregnating properties

PACKAGING

220 kg, 1100 kg

SHELF LIFE

3 months from the date of manufacture

STORAGE

POLIMAL® 1059-11 P-2 should be stored in closed packaging in a dry, cool place, protected from sunlight and suitable for storage of flammable materials at temperatures not exceeding 25°C.

PROCESSING CONDITIONS

The resin should be mixed before use. Good curing requires 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 the amount of hardener, within in the range of 1-2%. Finally, curing could be optimized by post-curing at elevated temperatures.

SPECIFICATION

Parameter	Unit	Value
Viscosity (25°C) acc. ISO 3219	mPa s	160+180
Gel time (25°C) acc. ISO 2535	min	40+50
Peak temperature acc. to DIN 16945	°C	110
Flexural strength acc ISO 178	MPa	min 110
Tensile modulus acc . ISO 527	MPa	3600
Elongation at break acc ISO 527	%	2,2
Heat resistance, HDT acc . ISO 75	°C	85
Barcol Hardness acc . ASTM D 2583	°B	45
Volumetric shrinkage acc. to PN-EN ISO 3521	%	6

Gel time with 2% Luperox® K-1S (MEKP)

Mechanical parameters refer to unreinforced resin cured for 24 hours at room temperature and post-cured for 24 hours at 80 °C.

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