

Technical information

Polimal® 1059-11 P-4

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Polimal®1059-11 P-4 is an accelerated, non-thixotropic DCPD modified unsaturated polyester resin.

It has a Lloyd Register approval certificate.

APPLICATION

Polimal® 1059-11 P-4 is designed for production of polyester glass laminates by infusion method.

PACKAGING

220 kg, 1100 kg, tank truck

SHELF LIFE

3 months from the production date.

STORAGE

The resin should be stored in closed original containers, in dry, well ventilated and shaded warehouse compartments adapted for storage of combustible materials at a temperature below 25°C.

CURING SYSTEM

Good curing conditions are received while using : 1-2% of hardener MEKP e.g. Luperox K-1S. The gel time control is reached by changing the amount of the hardener (within the range as above). Finally, curing could be optimized by post-curing at elevated temperatures.

SPECIFICATION

Parameter	Unit	Value
Viscosity (25°C) acc. to ISO 3219	mPa s	200÷230
Gel time (25°C) acc.to DIN 16945	min	59÷85
Peak temperature acc. to DIN 16945	°C	max 120
Flexural strength acc. to ISO 178	MPa	110
Tensile strength acc. to ISO 527	MPa	65
Tensile modulus acc.to ISO 527	MPa	3600
Elongation at break acc to ISO 527	%	2,2
Heat resistance, HDT acc. to ISO 75	°C	85
Barcol Hardness acc. to ASTM D 2583	°B	45
Volume shrinkage acc. to ISO 3521	%	6

Curing system: 2% MEKP medium active eg. Luperox K-1S

Mechanical parameters refer to unreinforced resin cured for 24 hours at room temperature and post-cured for 2 hours at 80 °C.

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