Technical information

Polimal® 1059-11 P-9

DATE: 02.03.2023

Polimal®1059-11 P-9 is an accelerated, non-thixotropic DCPD modified unsaturated polyester resin.
It has a Lloyd Register approval certificate.

APPLICATION

Polimal® 1059-11 P-9 is designed for production of polyester glass laminates by infusion method.

PACKAGING

220 kg, 1100 kg

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	**130÷150**
Gel time (25°C) acc.to DIN 16945	min	**120÷150** Summer version **155÷180**
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: 1% 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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POLIMAL® is a trade name reserved for unsaturated polyester resins produced by **Sarzyna Chemical Sp. z o.o**.

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