

POLIMAL® 1059-11 P-6

POLIMAL® 1059-11 P-6 is an accelerated, non-thixotropic DCPD modified unsaturated polyester resin.

APPLICATION

POLIMAL® 1059-11 P-6 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 date of manufacture

STORAGE

POLIMAL® 1059-11 P-6 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 at 25°C acc. to ISO 3219	mPa s	130 ÷ 170
Gel time at 25°C acc. to DIN 16945	min	41 ÷ 48
Cure time from 25°C to peak	min	54 ÷ 66
Maximum copolymerization temperature acc. to DIN 16945	°C	max 130
Tensile strength acc. to ISO 527	MPa	65
Flexural strength acc. to ISO 178	MPa	110
Tensile modulus acc. to ISO 527	MPa	3 600
Elongation at break acc. to ISO 527	%	2,2
Heat deflection temperature (HDT) acc. to ISO 75	°C	85
Barcol hardness ASTM D 2583-95	B	45
Volumetric shrinkage acc. to ISO 3521	%	6

Gel time with 2% Luperox® K-15

Mechanical parameters refer to unreinforced resin cured for 24 hours at room temperature and post-cured for 24 hours at 70°C.

POLIMAL® is a trade name reserved for unsaturated polyester resins produced by **CIECH Żywiec Sp. z o.o.**

Luperox® is a trade name registered for **ARKEMA**.

The data and suggestions contained in this material are based on our own research and considered by us to be reliable. However, we cannot accept any liability for actions and losses resulting directly or indirectly from the use of the products. The user should check the quality, safety and features of the product before applying it.

ATTENTION: This information does not replace the Safety Data Sheet or the Technical Sheet which are master documents available upon request.