

Technical Information

Polimal® GE 125 NPG Psp

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Transparent gelcoat based on unsaturated polyester resin modified by isophthalic acid and neopentyl glycol, accelerated.

APPLICATION

Designed to form an outer transparent layer on the surface of goods made from unsaturated polyester resin. It forms stable coating, resistant to action of atmospheric conditions, water, UV light, etc.

Spray lay-up application.

PACKAGING

20 kg, 220 kg

COLOUR

Polimal® GE 125 NPG Psp – transparent gelcoat with natural colour of polyester resin with additives.

SHELF LIFE

3 months from the date of manufacture.

PROCESSING CONDITIONS

Gelcoat should be mixed before use. Required temperature of gelcoat before processing is minimum 18°C. Ambient temperature above 18°C and low air humidity provide good curing conditions. 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 within the range of 1,2 – 2%. Use standard MEKP hardeners for polyester gelcoats, e.g. Luperox® K-1S.

STORAGE

Gelcoat should be stored in closed packaging in a dry, cool place, protected from sunlight and adapted for storing flammable materials at temperatures not exceeding 25°C. Long-term storage under non-recommended conditions may change properties such as viscosity and gel time.

SPECIFICATION

Parameter	Unit	Value
Viscosity at 25°C Brookfield, sp.27/rpm.1	mPas	18 000 ÷ 40 000
Gel time at 25°C 2% Luperox® K-1S	min	8 ÷ 16
Tensile strength acc. ISO 527	MPa	63
Flexural strength acc. ISO 178	MPa	105
Elongation at break acc. ISO 527	%	2,1
Heat deflection temperature (HDT) acc. ISO 75	°C	89
Barcol hardness acc. ASTM D 2583-07	B	48

Gel time with 2% Luperox® K-1S

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

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

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

