

TECHNICAL INFORMATION

POLIMAL® GE 125 NPG P sp

Application

Polimal® GE 125 NPG P sp is designed to form an outer, transparent coating on the surface of goods made from unsaturated polyester resin. It is intended to apply by spray lay-up.

Gelcoat characteristics

Polimal® GE 125 NPG P sp is based on unsaturated polyester resin modified by isophthalic acid and neopentyl glycol. It forms stable and flexible coating, which has resistance to action of atmospheric conditions, water, UV light, etc.

Typical parameters

Parameter	Unit	Value
Viscosity at 25°C, Brookfield, sp.27/rpm.1	mPa · s	18 000 ÷ 40 000
Gel time at 25°C 2% Luperox® K-1 S	min	8 ÷ 16
Flexural strenght acc. to ISO 178	MPa	110
Flexural modulus acc. to ISO 527	MPa	4400
Tensile modulus acc. to ISO 527	MPa	3900
Stress at break acc. to ISO 527	MPa	64
Heat deflection temperature (HDT) acc. to ISO 75	°C	98
Barcol hardness acc. to ASTM /D 2583-07	°B	40
Water absorption after 10 days	%	0,45
Guarantee period	month	3

Gel time with: 2% Luperox® K-1 S (MEKP)

Curing schedule: curing for 24 hours at room temperature and post curing for 2 hours at 80°C.

Storage conditions

Polimal® GE 125 NPG P sp should be stored in close package in a dry, shady and cool places, adapted for storing flammable materials, at temperatures not exceeding 25°C.

Processing conditions

The gelcoat should be mixed before use.

Required temperature of gelcoat before processing is min. 16°C. Ambient temperature above 18°C and low air humidity provide good curing conditions. The best curing conditions are obtained using medium reactive 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 %. After long storage time it is recommended to control of curing time – if it is the need – should be added 0,4 ÷ 1 ml Cobalt10% / 1kg of gelcoat.

Polimal® is the trade name reserved for unsaturated polyester resins produced by **CIECH - Sarzyna S.A.**

Luperox® is the trade name registered for products of **ARKEMA** company.

Data and suggestions included in this document are on the basis of our own tests and are considered by us as reliable. However, we cannot take any responsibility for actions and losses directly or indirectly resulted from using our products. User should check the product quality, safety and properties before its using.

Note:

The information does not substitute Material Safety Data Sheet or Technical Specification, which are superior documents and are available on the customer's request.