

POLIGRAPH 70 LV PLUS PREMIUM

1. DESCRIPTION

Low viscosity, thixotropic NPG isophthalic polyester resin.

2. PROPERTIES

- Fast curing cycle.
- Excellent impregnation in the glass fibre.
- Fully compatible with pigments.
- High mechanical properties.
- High resistance to water and temperature.

3. APPLICATIONS

- Specially designed as a base resin for fibreglass work.
- Excellent intercoat adhesion and very low linear and volumetric shrinkage.
- The percentage of mek peroxide should be between 0.75% and 1.5%, although it can be increased to 2% to reduce gel time.
- Application can be manual or by machine.
- May be used in in pultrusion, lamination, RTM and filament winding processes.

4. TECHNICAL CHARACTERISTICS

Appearance	Dark liquid
Exothermic peak temperature (in 45 min)	69.5
Density (kg / cm³)	1.40 – 1.50
Gel time [25°C] (min)¹	7 – 10
Viscosity Brookfield [H3, 25°C] (cP)	800 - 2000

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5. MECHANICAL CHARACTERISTICS

	APPLY STANDARD	VALUE
Flexural modulus (MPa)	UN 14125	7000 - 9000
Flexural strength (MPa)	UN 14125	30 – 70
Maximum deflection (mm)	UN 14125	0.40 – 0.80
Tensile modulus (MPa)	UN 527	5000 – 5700
Tensile strength (MPa)	UN 527	30 – 45
Elongation at break (mm)	UN 527	0.70 – 0.90

Mechanical properties of catalyzed resin

6. STORAGE AND PACKAGING

- The product should be stored in a dry place at a temperature not exceeding **25°C**.
- The expiry date is **6 months** under the conditions mentioned above.
- Generally, the products will be supplied in drum format
- For other quantities and/or packaging: contact Graphenano Composites Sales Department