

POLIGRAPH 70 PLUS PREMIUM

1. DESCRIPTION

Medium-low viscosity, thixotropic NPG isophthalic polyester resin.

2. PROPERTIES

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

3. APPLICATIONS

- 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 % but can be increased to 2 % to reduce gel time.
- The application can be manual or by machine.
- Suitable for use in pultrusion, BMC, and SMC processes.

4. TECHNICAL CHARACTERISTICS

APPEARANCE	Dark liquid
EXOTHERMIC PEAK TEMPERATURE (IN 45 MIN)	69,5
DENSITY (kg / cm³)	1.60 – 1.70
GEL TIME [25°C] (min)¹	7 – 10
VISCOSITY BROOKFIELD [H3, 25°C] (cP)	800 – 1500

(1) 100/0.3 Co/1.5 PMEK

5. MECHANICAL CHARACTERISTICS

	APPLY STANDARD	VALUE
FLEXURAL MODULUS (MPa)	UN 14125	8 000 – 10 000
FLEXURAL STRENGTH (MPa)	UN 14125	50 – 70
MAXIMUM DEFLECTION (mm)	UN 14125	0.60 – 0.90
TENSILE MODULUS (MPa)	UN 527	6 500 – 7 500
TENSILE STRENGTH (MPa)	UN 527	30 – 40
ELONGATION AT BREAK (mm)	UN 527	0.40 – 0.60

Mechanical properties of catalyzed resin

	APPLY STANDARD	VALUE
FLEXURAL MODULUS (MPa)	UN 14125	63 000 – 65 000
FLEXURAL STRENGTH (MPa)	UN 14125	1000 - 1200
MAXIMUM DEFLECTION (mm)	UN 14125	5.0 – 6.0
TENSILE MODULUS (MPa)	UN 527	20 000 – 23 000
TENSILE STRENGTH (MPa)	UN 527	750
ELONGATION AT BREAK (mm)	UN 527	6.0 – 7.0

Mechanical properties of glass fibre reinforced resin (75%)

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.