CompoGraph
GRAPHENE RESIN

POLIGRAPH 70 PLUS PREMIUM

V09 25/02/25

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 47 min)	69.5 ºC
Density	1.65 g/cm^3
Gel time (25 ºC)(1)	7 - 10 min
Brookfield viscosity (H2V21, 25 ºC)	1 000 – 1 500 cPs

(1) 100/0.3 CO/1.5 PMEK

5. MECHANICAL CHARACTERISTICS

Flexural modulus	8 500 - 9 500 MPa
Flexural strength	55 - 65 MPa
Maximum deflection (dL)	0.4 - 0.5 mm
Tensile modulus	6 500 - 7 500 MPa
Tensile strength	30 - 40 MPa
Elongation at break	0.4 - 0.6 %

Mechanical properties of the catalysed resin

Flexural modulus	~ 64 000 MPa
Flexural strength	~ 1 100 MPa
Maximum deflection dL	~ 5.2 mm
Tensile modulus	22 200 MPa
Tensile strength	750 MPa
Elongation at break	6.5 %

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 ºC.**
- The expiry date is **6 months** under these conditions.
- Generally, the products will be supplied in **drum** format.
- For other quantities and/or packaging: **contact us.**