

# POLIGRAPH 70 PLUS RESIN

Edition date: 12/04/23  
VERSION: REV02

## 1. DESCRIPTION

Medium-high viscosity, accelerated, thixotropic, isophthalic polyester resin.

## 2. PROPERTIES

- **Fast curing cycle.**
- **Excellent impregnation into the glass.**
- **Fully compatible with pigments.**
- **High mechanical properties.**
- **High resistance to water, temperature and fire.**

## 3. APPLICATIONS

- It is specially designed as a base resin for fibreglass work.
- It has good 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 up to 2% to reduce gel time.
- The application can be manual or by machine.
- Can be used in pultrusion processes.

## 4. TECHNICAL CHARACTERISTICS

|  |                 |
|--|-----------------|
| <b>Appearance</b>                              | Dark liquid     |
| <b>Exothermic peak temperature (in 46 min)</b> | 54.3 °C         |
| <b>Thixotropy index</b>                        | 1,77            |
| <b>Gel time (25°C)<sup>(1)</sup></b>           | 5 - 7 min       |
| <b>Viscosity brookfield (H2V30 , 25°C)</b>     | 2000 – 2300 cps |

(1) 100/0.3 CO/1.5 PMEK

## 5. MECHANICAL CHARACTERISTICS

|                       |          |
|-----------------------|----------|
| Flexural modulus      | 9124 MPa |
| Flexural strength     | 72 MPa   |
| Maximum deflection dL | 0.83 mm  |
| Tensile modulus       | 5190 MPa |
| Tensile strength      | 39 MPa   |
| Elongation at break   | 0.84 %   |

*Mechanical properties of the catalysed resin*

|                       |           |
|-----------------------|-----------|
| Flexural modulus      | 64120 MPa |
| Flexural strength     | 1125 MPa  |
| Maximum deflection dL | 5.19 mm   |
| Tensile modulus       | 22200 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°C.
- The expiry date is **6 months** under these conditions.
- The existing containers are **barrels, IBC, tank**.
- For other quantities: **contact us**.