

# POLIGRAPH 140 PLUS RESIN

Edition date: 12/04/23  
VERSION: REV02

## 1. DESCRIPTION

Medium to high viscosity, fully polymerisable, medium reactive, pre-accelerated, thixotropic, fully polymerisable orthophthalic polyester resin.

## 2. PROPERTIES

- It has a fast curing cycle.
- It is fully compatible with pigments.
- It has high mechanical properties.
- Improvement of thermal conductivities.

## 3. APPLICATIONS

- It is specially designed as a base resin for fibreglass or injection resin work.
- It has good intercoat adhesion and very low linear and volumetric shrinkage.
- Inert mineral fillers such as calcium carbonates, calcium sulphates, dolomite or silica can be added. The percentage of mek peroxide to be added is between 0.75% and 1%, although it can be increased to 2% to reduce the 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>	39.6 °C
<b>Thixotropy index</b>	1,45
<b>Gel time (25°C) <sup>(1)</sup></b>	20 - 25 min
<b>Viscosity brookfield (H2V30 , 25°C)</b>	2800 – 3000 cps

(1) 100/0.3 Co/1.5 PMEK

## 5. MECHANICAL CHARACTERISTICS

<b>Flexural modulus</b>	10171 MPa
<b>Flexural strength</b>	60 MPa
<b>Maximum deflection dL</b>	0.6 mm
<b>Tensile modulus</b>	6280 MPa
<b>Tensile strength</b>	36 MPa
<b>Elongation at break</b>	0.57 %

*Mechanical properties of the catalysed resin*

<b>Flexural modulus</b>	56888 MPa
<b>Flexural strength</b>	1153 MPa
<b>Maximum deflection dL</b>	5.59 mm
<b>Tensile modulus</b>	22700 MPa
<b>Tensile strength</b>	707 MPa
<b>Elongation at break</b>	5.6 %

*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**.