

## POLIGRAPH 140 LV PLUS PREMIUM

V03 25/02/25

### **1. DESCRIPTION**

Low viscosity, fully polymerisable, highly reactive, thixotropic, low viscosity orthophthalic polyester resin.

### **2. PROPERTIES**

- **Fast curing cycle.**
- **Fully compatible with pigments.**
- **High mechanical properties.**
- **Improved thermal conductivity.**

### **3. APPLICATIONS**

- Specially designed as a base resin for fibreglass or injection resin works.
- Excellent intercoat adhesion and very low linear and volumetric shrinkage.
- Inert mineral fillers can be added, such as calcium carbonate, alumina trihydrate, silica, etc. 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.
- May be used in pultrusion, lamination, RTM and Filament Winding processes.

### **4. TECHNICAL CHARACTERISTICS**

<b>Appearance</b>	Dark liquid
<b>Exothermic peak temperature (in 43 min)</b>	95 °C
<b>Density</b>	1.25 g/ml
<b>Gel time (25 °C) <sup>(1)</sup></b>	10 - 15 min
<b>Brookfield viscosity (H2V50, 25 °C)</b>	400 – 800 cps

(1) 100/0.3 Co/1.5 PMEK

## **5. MECHANICAL CHARACTERISTICS**

<b>Flexural modulus</b>	8 300 - 10 200 MPa
<b>Flexural strength</b>	40 - 60 MPa
<b>Maximum deflection dL</b>	0.4 - 0.6 mm
<b>Tensile modulus</b>	5 000 - 6 000 MPa
<b>Tensile strength</b>	25 - 40 MPa
<b>Elongation at break</b>	0.5 - 0.7 %

*Mechanical properties of the catalysed 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 these conditions.
- Generally, the products will be supplied in **drum** format.
- For other quantities and/or packaging: **contact us**.