

## 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

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

(1) 100/0.3 Co/1.5 P MEK

## 5. MECHANICAL CHARACTERISTICS

Flexural modulus	8 300 - 10 200 MPa
Flexural strength	40 - 60 MPa
Maximum deflection dL	0.4 - 0.6 mm
Tensile modulus	5 000 - 6 000 MPa
Tensile strength	25 - 40 MPa
Elongation at break	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**.