

POLIGRAPH 140 PLUS RESIN

Edition date: 01/03/24
VERSION: REV05

1. DESCRIPTION

Medium to high viscosity, fully polymerisable, medium reactive, and fully polymerisable orthophthalic polyester resin.

2. PROPERTIES

- **Fast curing cycle.**
- **Suitable with pigments.**
- **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

Appearance	Dark liquid
Exothermic peak temperature (in 46 min)	39.6 °C
Thixotropy index	1.45
Gel time (25°C) ⁽¹⁾	20 - 25 min
Viscosity brookfield (H2V30 , 25°C)	2800 – 3000 cps

(1) 100/0.3 Co/1.5 PMEK

5. MECHANICAL CHARACTERISTICS

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

Mechanical properties of the catalysed resin

Flexural modulus	56888 MPa
Flexural strength	1153 MPa
Maximum deflection dL	5.59 mm
Tensile modulus	22700 MPa
Tensile strength	707 MPa
Elongation at break	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, tank**.
- For other quantities: **contact us**.