

# VINILGRAPH 40 PLUS RESIN

Edition date: 12/04/23  
VERSION: REV02

## 1. DESCRIPTION

Epoxy vinylester resin, diluted in styrene, of medium viscosity and reactivity. It is pre-accelerated with cobalt salts.

## 2. PROPERTIES

- High mechanical properties.
- High chemical resistance.
- Excellent corrosion resistance.
- High temperature and fire resistance.

## 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.
- 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 28 min) | 109.8 °C        |
| Thixotropy index                        | 2,74            |
| Gel time (25°C) <sup>(1)</sup>          | 15 - 20 min     |
| Viscosity brookfield (H5V30 , 25°C)     | 5500 – 6000 cps |

(1) 100/0.3 CO/1.5 P MEK

## 5. MECHANICAL CHARACTERISTICS

|                       |              |
|-----------------------|--------------|
| Flexural modulus      | 10502.53 MPa |
| Flexural strength     | 47.2 MPa     |
| Maximum deflection dL | 0.46 mm      |
| Tensile modulus       | 6580 MPa     |
| Tensile strength      | 27.4 MPa     |
| Elongation at break   | 0.41 %       |

*Mechanical properties of the catalysed resin*

|                       |              |
|-----------------------|--------------|
| Flexural modulus      | 60150.69 MPa |
| Flexural strength     | 1221.27 MPa  |
| Maximum deflection dL | 10.48 mm     |
| Tensile modulus       | 21700 MPa    |
| Tensile strength      | 893 MPa      |
| Elongation at break   | 6.2 %        |

*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 **jerrycans, barrels, IBC**.
- For other quantities: **contact us**.