

VINILGRAPH 40 PLUS RESIN

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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.**
- **Improvement of thermal conductivities.**

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)⁽¹⁾	15 - 20 min
Viscosity brookfield (H5V30 , 25°C)	5500 – 6000 cps

(1) 100/0.3 CO/1.5 PMEK

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**.