CompoGraph
GRAPHENE RESIN

VINILGRAPH REBARS

V01 18/03/25

1. DESCRIPTION

Vinyl ester epoxy resin based on bisphenol A with graphene, featuring low viscosity and medium reactivity.

2. PROPERTIES

- High chemical resistance·
- Excellent corrosion resistance·
- Improved thermal conductivity.

3. APLICACIONES

- Specifically designed as a reinforcement for base resins such as fibreglass, carbon fibre, etc.
- Provides good interlayer adhesion and very low linear and volumetric shrinkage.
- The percentage of MEK peroxide to be added ranges from 0.6% to 1%, although it can be increased to 2% to reduce gel time.
- Can be applied manually or by machine.
- Suitable for pultrusion, hand lay-up, BMC, and SMC processes.

4. TECHNICAL CHARACTERISTICS

Appearance	Dark liquid
Density	1.0 – 1.1 g/cm^3
Gel time (25 ºC) (1)	10 - 15 min
Brookfield Viscosity (H2V, 25 ºC)	350 - 450 cPs

(1) 100/0,15 CO/1,2 PMEK

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5. MECHANICAL CHARACTERISTICS

Flexural modulus	4,000 – 5,000 MPa
Flexural strength	40 - 65 MPa
Maximum flexion (dL)	1.0 – 1.45 mm
Tensile modulus	3 200 – 3 400 MPa
Tensile strength	20 - 40 MPa
Elongation at break	0.65 – 1.45%

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.
- Its shelf life is **6 months** under these conditions.
- Generally, the product is supplied in **drums**.
- For other quantities and/or packaging options, please contact us.