CompoGraph
GRAPHENE RESIN

VINILGRAPH CONDUCTIVITY 83

V02 26/02/25

1. DESCRIPTION

Bisphenol A type epoxy based vinylester resin with graphene materials. It is a premium resin with improved reactivity and purity. It provides excellent corrosion resistance to a wide range of organic and inorganic acids, alkalis, oxidizing agents and salts in solution, etc. It has very good mechanical properties in both tensile and bending, and can be used with glass and carbon fiber. It has high electrical conductivity since its resistivity is 20 Ω*m.

2. PROPERTIES

- Very low material resistivity approximately 20*m as semiconductor.
- Excellent performance against resistance to chemical agents.
- Fully compatible with carbon and glass fibre.
- High mechanical properties.

3. APPLICATIONS

- In applications where the material is required to have electrical conductivity.
- Good intercoat adhesion and very low linear and volumetric shrinkage.
- The percentage of mek peroxide should be between 1 % and 1.5 %, although it can be increased up to 2% to reduce the gel time.
- The application can be manual or by machine.
- May be used in laminating processes.

4. TECHNICAL CHARACTERISTICS

Appearance	Dark liquid
Density	1.1 g/cm^3
Gel time (25ºC)(1)	14 - 16 min
Viscosity brookfield (H3V80 , 25ºC)	7 700 – 7 900 cPs
Resistivity	20 Ω*m

(1) 100/6% CoOct. 0,3%/1,2% PMEK

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5. MECHANICAL CHARACTERISTICS

Flexural modulus	3 968 MPa
Flexural strength	43.1 MPa
Maximum deflection (dL)	1.1 mm
Tensile modulus	3 130 MPa
Tensile strength	24.9 MPa
Elongation at break	0.80 %

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.
- Existing containers are **IBCs and barrel**.
- For other quantities: **contact us.**