

VINILGRAPH 901 LV PLUS PREMIUM

V03 26/02/25

1. DESCRIPTION

Bisphenol A type epoxy vinyl ester resin with graphene, of medium - low viscosity and reactivity. It provides excellent corrosion resistance to a broad range of organic and inorganic acids, alkalis, oxidising chemicals, and salt solutions, etc. It also provides very good mechanical strength such as tensile and flexural strength when incorporated with reinforcements such as glass fibre, carbon fibre, etc.

2. PROPERTIES

- **High mechanical properties.**
- **High chemical resistance.**
- **Excellent corrosion resistance.**
- **Improvement of thermal conductivities.**

3. APPLICATIONS

- Specially designed as a base resin reinforcement such as glass fibre, carbon fibre etc.
- Excellent intercoat adhesion and very low linear and volumetric shrinkage.
- The percentage of mek peroxide to be added is between 0.6% and 1%, although it can be increased to 2% to reduce the gel time.
- The application can be manual or by machine.
- May be used in pultrusion, lamination, RTM or filament winding processes.

4. TECHNICAL CHARACTERISTICS

Appearance	Dark liquid
Specific Gravity	1.3 – 1.4
Gel time (25 °C)⁽¹⁾	18 - 20 min
Viscosity brookfield (SPL2V25, 25 °C)	800 – 1 200 cPs

(1) 100/0.3 CO/0.6 PMAK Temperature: 25°C

5. MECHANICAL CHARACTERISTICS

Flexural modulus	7 000 - 8 000 MPa
Flexural strength	50 - 60 MPa
Maximum deflection (dL)	0.7 - 0.9 mm
Tensile modulus	5 000 - 5 500 MPa
Tensile strength	35 - 45 MPa
Elongation at break	0.5 - 0.7 %

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**.
- The expiry date is **6 months** under these conditions.
- Generally, the products will be supplied in **drum** format.
- For other quantities and/or packaging: **contact us**.