

VINILGRAPH 901LV PLUS PREMIUM

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, oxidizing chemicals and salt solutions etc. It also provides very good mechanical strength such as tensile and flexura[while incorporated with reinforcement 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, hand lay-up, BMC and SMC processes.

4. TECHNICAL CHARACTERISTICS

APPEARANCE	Dark liquid
DENSITY (kg / cm³)	1.30 – 1.40
GEL TIME [25°C] (min)¹	18 – 20
VISCOSITY BROOKFIELD [H3, 25°C] (cP)	800 – 2000

(1) 100/0.3 Co/0.6 PMEK

5. MECHANICAL CHARACTERISTICS

	APPLY STANDARD	VALUE
FLEXURAL MODULUS (MPa)	UN 14125	6 500 – 8 000
FLEXURAL STRENGTH (MPa)	UN 14125	45 - 75
MAXIMUM DEFLECTION (mm)	UN 14125	0.70 – 1.50
TENSILE MODULUS (MPa)	UN 527	5 000 – 5 500
TENSILE STRENGTH (MPa)	UN 527	35 – 45
ELONGATION AT BREAK (mm)	UN 527	0.50 – 0.70

Mechanical properties of catalyzed 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 the conditions mentioned above.
- Generally, the products will be supplied in drum format.
- For other quantities and/or packaging: contact Graphenano Composites Sales Department.