

VINILGRAPH 901 PLUS PREMIUM RESIN

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1. DESCRIPTION

Bisphenol A type epoxy vinyl ester resin with graphene, of medium viscosity and reactivity. It is preaccelerated with cobalt salts. 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 flexural while incorporated with reinforcement such as glass fiber, carbon fiber etc.

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 reinforcement such as glass fiber, carbon fiber etc.
- It has good 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 ca be manual or by machine.
- Can be used in pultrusion processes.

4. TECHNICAL CHARACTERISTICS

Appearance	Dark liquid
Specific Gravity	1.4 – 1.5
Gel time (25°C) ⁽¹⁾	18 - 20 min
Viscosity brookfield (SPL2V25, 25°C)	1100 – 1500 cps

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





5. MECHANICAL CHARACTERISTICS

Flexural modulus	8265,64 MPa
Flexural strength	45,72 MPa
Maximum deflection dL	0,53 mm
Tensile modulus	6070 MPa
Tensile strength	35,6 MPa
Elongation ar break	0.61 %

Mechanical properties of the catalysed resin

Flexural modulus	154.638,41 MPa
Flexural strength	881.90 MPa
Maximum deflection dL	3,14 mm
Tensile modulus	26300 MPa
Tensile strength	997 MPa
Elongation ar break	5,4 %

Mechanical properties of carbon fibers reinforced resin (60%)

Flexural modulus	66.874,54 MPa
Flexural strength	1193,64 MPa
Maximum deflection dL	9,62 mm
Tensile modulus	21900 MPa
Tensile strength	798 MPa
Elongation ar break	6,1 %

Mechanical properties of glass fibre reinforced resin (72%)

6. STORAGE AND PACKAGING

- The product should be stored in a dry place at a temperature not exceeding 25°C.
- The expiry date is **4 months** under these conditions.
- The existing containers are **jerrycans**, **barrels**, **IBC**.
- For other quantities: contact us.

