POLIGRAPH 140 LV PLUS PREMIUM

1. DESCRIPTION

Low viscosity, fully polymerisable, highly reactive, thixotropic, low viscosity orthophthalic polyester resin.

2. PROPERTIES

- Fast curing cycle.
- Fully compatible with pigments.
- High mechanical properties.
- Improved thermal conductivity.

3. APPLICATIONS

- Specially designed as a base resin for fibreglass work.
- Excellent intercoat adhesion and very low linear and volumetric shrinkage.
- Inert mineral fillers can be added, such as calcium carbonate, alumina trihydrate, silica, etc.
- The percentage of MEK peroxide should be between 0.75% and 1.5%, although it can be increased to 2% to reduce gel time.
- Application can be manual or by machine.
- May be used in in pultrusion, lamination, RTM and filament winding processes.

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Version: v04
Date : 02/03/2026

4. TECHNICAL CHARACTERISTICS

APPEARANCE	Dark liquid
EXOTHERMIC PEAK TEMPERATURE (IN 45 MIN)	95
DENSITY (kg / cm³)	1.20 – 1.30
GEL TIME [25ºC] (min)[1]	10 – 15
VISCOSITY BROOKFIELD [H3, 25ºC] (cP)	800 - 1200

(1) 100/0.3 Co/1.5 PMEK

5. MECHANICAL CHARACTERISTICS

	APPLY STANDARD	VALUE
FLEXURAL MODULUS (MPa)	UN 14125	7500 – 9500
FLEXURAL STRENGTH (MPa)	UN 14125	35 – 55
MAXIMUM DEFLECTION (mm)	UN 14125	0.40 – 0.70
TENSILE MODULUS (MPa)	UN 527	5000 – 6000
TENSILE STRENGTH (MPa)	UN 527	25 – 40
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 **25ºC.**
- 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