

Polyester resin

General.

Polyester resin is a polyester resin with a reduced styrene Emission. This resin is thixotropic and accelerated. The combination of a long processing time and fast curing is remarkable. Short release time. Sufficient time for cutting the edges. It impregnates glass mat / glass fabric quickly and is suitable for laminates from 2 to 5 mm wet on wet. Suitable for hand lay-up and spray-up.

Application.

- Body construction
- Boat construction
- Construction of containers etc.

Features / Specifications.

Liquid

- | | |
|----------------------|------------------------------------|
| • Colour | bluish transparent |
| • Viscosity (23 ° C) | 1400 mPa.s (Brookfield RV2, 10RPM) |
| • Density | 1.1 g/cm ³ |
| • Styrene content | approx. 41 % |
| • Shrinkage on cure | 5,5 – 6,5 % |

Cured

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|-----------------------------------|-----------------------|
| • Tensile strength (ISO R/527) | 55 MPa |
| • Elongation at break (ISO R/527) | 2,0 % |
| • Elongation strength (ISO R/178) | 90 MPa |
| • E-modulus (ISO R/178) | 4100 MPa |
| • Impact resistance (ISO 179) | 5-6 kJ/m ² |
| • Heat shape retention (ISO 75) | 65°C |
| • Hardness barcole | 45 |

Laminate (glass content 33%)

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|-----------------------------------|------------------------|
| • Tensile strength (ISO R/527) | 105 N/mm ² |
| • Elongation strength (ISO R/178) | 165 N/mm ² |
| • E-modulus (ISO R/178) | 8500 N/mm ² |

Processing.

Polyester resin is pre-accelerated. Curing takes place by adding 2 to 3% MEKP-hardener.

For thoroughly coloring of the laminate 3 to 5 wt. % polyester pigment paste needs to be added. It contains a color indicator which after addition of the hardener turns from blue to green. After the end of half the processing time the color changes to yellowish-turbid. The resin is suitable for hand lay-up and spray-up.

Table with processing times:

Temperature	MEKP-hardener	Processing time
20 °C	1 %	40 min.
20 °C	2 %	32 min.
20 °C	3 %	25 min.

After a long period of storage the resin needs to be mixed prior to usage.

Safety precautions.

Avoid contact with skin and provide good ventilation during processing.

Safety data sheets available on request.

Flash point 31 ° C.

Packaging, storage and transportation.

Packaging sizes 1, 5, 30 and 220 kg.

Shelf life in sealed containers at 20 ° C is 6 months.

ADR-class/UN-number: 3/1866
