



VYTEK RESIN

Description: VYTEK resin is a styrene-free, hybrid vinylester designed with renewable materials. The low odor and VOC occurrence provide a safer use. This resin can be used according standard techniques such as hand lay-up or vacuum infusion. Viscosity as well as gel time can be easily tuned according needs. With an amber colour, the resin takes a green shade after cross-linking.

Advantages:

- Styrene-free
- Low odor
- Efficient
- Biosourced

Typical liquid resin properties

Properties	Values
Density, 23 °C	1.04 g/mL
Viscosity, 23 °C ¹	100-800 cPs
Styrene Content	0%
Shelf Life, 23 °C	> 6 months
Gel time, 23 °C ²	25 min
Enthalpy ^{2,3}	301 J/g
Onset Temp ^{2,3}	46 °C
Max Temp. Peak ^{2,3}	111 °C

- 1) Viscosity can be tuned depending on needs. Typical value is around 190 cPs.
- 2) Typical promotion with cobalt 2-ethylhexanoate and dimethylaniline, both at 0.2% concentration. Curing is performed with 2% Luperox DDM-9.
- 3) Measured by DSC at 10 °C/min.

Typical laminate properties ⁴

Properties	Values	Test Method
Tensile Strength	85 MPa	ASTM D-638
Tensile Modulus	2 253 MPa	ASTM D-638
Flexural Strength	191 MPa	ASTM D-790
Flexural Modulus	10 196 MPa	ASTM D-790

- 4) Laminates were made with 3 ply fiberglass mat 1.5 Oz., weight ratio of 70/30 resin/fiber.