

VINALKYD 550 PE – TALV - BLE



Unsaturated polyester resin

- Description:** It is a low viscosity, thixotroped, previously accelerated, orthophtalic, with medium reactivity unsaturated polyester resin. Contain an additive for low styrene emission. The resin contains a peroxide indication system, which effects a color change from bluish to pale green after addition of catalyst.
- Use:** Applied for production of fibreglass articles used for boat construction, household, building and industry purposes. The hardening is carried by addition of 2% MEKP-50 (Butanox M-50). Reinforcement is made by glass-fibre addition up to 60 % in several layers.
- Properties:**
- It can be applied after gel coat;
 - It may be pigmented with organic and inorganic pigments;
 - Very good wetting properties of glass-fibre;
 - It does not flow down, when applied on vertical surface;
 - On the last coat can be applied topcoat.
- Classification:** Meets the requirements of EU legislation.

CHARACTERISTICS

INDEXES	NORM
Appearance: (visually)	Bluish colored thixotropic liquid
Non-volatile content, 125°C/1h: (BNS EN ISO 3251)	57 ± 1 %
Gelling time at 23°C: (ISO 2535)	15-25 min

Orgachim Resins®

Viscosity Brookfield 23°C(spindle 2, speed 12): 1100-1300 mPa.s
(ISO 2555)

Thixotropic index(sp.3, speed.5/50): min 2,4
(ASTM D 2196-05(B))

OTHER DATA

Density at 20°C: 1,1 g/cm³
(BSS EN ISO 2811-1)

Flash point, covered pot: 34°C
(BNS ISO 2719)

Acid number: max 26 mg KOH/g
(BSS EN ISO 3682)

Physical-mechanical properties

Hardening system: 2% MEKP
Hardening Conditions: 24h at room temperature,
Post-curing 16 h at 40°C

INDEXES

Tensile strength
(BNS EN ISO 527-1,2)

Flexural strength
(BNS EN ISO 178)

Flexural modulus
(BNS EN ISO 178)

Elongation at break
(BNS EN ISO 527-1,2)

HDT
(BNS EN ISO 75-1,2)

NORM

min. 60 MPa

min.120 MPa

min. 3.400 MPa

min.1.5%

min.79 °C

Orgachim Resins®

Barcol Hardness
(ASTM D -2583)

min.50

Application:

Unsaturated polyester resin Vinalkyd 550 PE-TALV-BLE – hardens after the following hardening system:
Add to 1000 g resin a 20 g MEKP-50 (Butanox M-50). The mixture should be well homogenized and then used for preparation of the details. The viability of the mixture is from 15 to 25 minutes and depends on the temperature of the resin, as the process of gelling accelerates additionally at temperature higher than 23°C, however low temperature decelerates the time of gelling.

Packaging:

In metal conic boxes, metal barrels and cisterns from stainless

Storage:

The packed unsaturated polyester resin is stored in closed, dry and fire prevented storage areas, protected from direct sunlight, at temperature up to 25°C.
Storage shelf life - 4 months from the production date.

Hygiene, safety work and ecology:

Refer to the Safety Data Sheet for further information on the safe storage, use and handling of Vinalkyd 550 PE-TALV-BLE. The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product, and adequate safety procedures should be followed.

The present technical description has the purpose to inform the clients on the quality of our product. The data herein is based on our present best knowledge. We invite our clients before work to check the quality of the product or its adaptation to the base and to make an experimental application. Our clients must be sure, that the present technical description hasn't been changed or replaced by a newer edition.

Orgachim Resins®

Ruse 7000, 21 Treti mart Blvd., tel.: +359 82 886 340; fax: +359 82 886 340

www.orgachimresins.bg