TECHNICAL DESCRIPTION
AUGUST 2014
Cancels and replaces all previous editions

VINALKYD 901 PE-A (LV)



Orthophthalic unsaturated polyester resin

Description: It is orthophthalic, medium reactive, pre-accelerated unsaturated polyester

resin.

Use: Used for production of articles from glass fibre for general purpose end for

polymermarble. To harden add 2 % MEKP (Butanox M-50).

• It can be applied after gel coats;

• Suitable for casting;

• It may be filled up to 60% with talc, silica flours and marble powder (the fillers should be dry) for preparation of articles from polymer

marble in a thin layer;

Very good mechanical properties

Classification: In compliance with requirements of EU legislation.

CHARACTERISTICS

INDEXES NORM

Appearance: Pink-colored liquid

(visually)

Viscosity Brookfield at 25°C: 700 - 900 mPa.s

(sp.3/20 rpm) (ISO 2555)

Non-volatile content: 70+2 %

(125°C/1h)

(BNS EN ISO 3251)

Acid number: max 32 mgKOH/g

(BNS EN ISO 3682)

Orgachim Resins®

Reactivity at 35 °C:

(after adding of 2 % Butanox M-50)

- **geling time** 8-10 min.

- hardening time 5 min - 6 min 30 s

(from gel time to T max)

time to reach peak
 temperature maximum
 13-16 min
 170-190°C

(Test Method)

Thermostability at 120°C min 2 h

(Test Method)

OTHER DETAILS

Density at 20°C: $1,1 \text{ g/cm}^3$

(BNS ISO 2811-1)

Flash point, covered pot: 32°C

(BNS EN ISO 1523)

PHISICAL -MECHANICAL INDEXES

Hardening system: 2% MEKP -50

Hardening conditions:

24 h at room temperatures Post-curing 16h at 40 °C

INDEX VALUE

Tensile strength: min 60 MPa

(BNS EN ISO 527-1,2)

Flexural strength: min 120 MPa

(BNS EN ISO 178)

Elongation at break: min 2,2 %

(BNS EN ISO 527-1.2)

Flexural modul: min 3200 MPa

(BNS EN ISO 178)

Hardness at 25 °C (Barcol): min 50

(ASTM D 2583)

Heat deflection temperature: min 60°C

(BNS EN ISO 75-1,2)

Water absorption (24 hours): max 0.2% (ISO 62)

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Solubility: Dissolves in styrene, n-butyl acetate and acetone.

Application: Unsaturated polyester resin Vinalkyd 901 PE-A(LV) hardens with the

following hardening system:

Add to 1000 g of resin 20 g Hardener MEKP-50 (Butanox M-50) homogenized well and then use for preparation of the articles. Mixture viability is from 8 to 10 minutes and depends on the temperature of the resin, as the process of jelling is accelerated additionally at temperature higher

than 35° C, but lower temperature will delay the gelling time.

Packaging: In metal conic cans of 22 L; metal barrels; cisterns from stainless steel

Storage: Store packaging of unsaturated polyester resin in sheltered, dry and fireproof

storage areas, without access of direct sunlight at temperature up to 25°C. Prolonged storage or storage outside of recommended conditions can

influence liquid resin properties like viscosity and gel time.

Prolonged storage can reduce the effect of the accelerator. An addition of

0.5-1.0% Co-1% may be necessary to restore the original pot life.

Shelf life - 3 months from date of production.

Hygiene, safety work and ecology:

Refer to the Material Safety Data Sheet for further information on the safe storage, use and handling of Vinalkyd 901 PE-A (LV). The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product, and adequate safety procedures should be followed

Attention! Don't allow direct contact of organic peroxides with accelerators when using, transporting and storing.

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.