

# VINNAPAS® B 500/40 VL

VINYLACETATE COPOLYMER, CAS NO. 26354-30-3

## Product description

Copolymerization of vinyl acetate with vinyl laurate yields copolymers that are more flexible than VINNAPAS® homopolymer resins.

## Properties

VINNAPAS® B 500/40 VL is pale yellow, transparent and has good light stability. Water absorption is lower and alkali resistance higher compared to VINNAPAS® homopolymer resins. A remarkable feature of VINNAPAS® copolymer resins is that they release solvent more quickly than other vinyl resins, e.g. VINNAPAS® homopolymers.

VINNAPAS® copolymer resins are permanently flexible since they are internally plasticized. There is no separate plasticizing component to evaporate or migrate.

VINNAPAS® B 500/40 VL forms a melt at elevated temperatures. For prolonged exposure to high temperatures we recommend incorporating of an aging stabilizer. Preliminary test should be carried out as required.

## Application

Typical applications for VINNAPAS® B 500/40 VL:

- adhesives
- lacquers
- gum base

## Processing

Product data

Melt viscosity, 100% Polymer

Bohlin high temperature viscosimeter, 5°C/min

100 °C	~ 400 Pa·s
120 °C	~ 150 Pa·s
140 °C	~ 70 Pa·s
160 °C	~ 35 Pa·s

## Storage

Long-term storing above 30°C should be avoided. Storage conditions must be dry; material must be

protected from direct sun exposure.

Under these conditions the product has a shelf life of at least 24 months.

VINNAPAS® B 500/40 VL shows a cold flow.

## Packaging

VINNAPAS® B 500/40 VL is supplied in 25 kg siliconized carton boxes.

## Additional information

Health regulations

The monomers used in the production of VINNAPAS® B 500/40 VL are listed in section 1 of the EU Resolution AP(2004)1 as well as in section A of Commission Directive 2002/72/EC.

VINNAPAS® B 500/40 VL is in compliance with:

- Chinese regulation on gum base
- German regulation on Food Additives (ZZuIV)
- French regulation on gum base
- Italian regulation on gum base
- Spanish regulation on gum base

GMO status: VINNAPAS® B 500/40 VL is a synthetic polymer. All raw materials derived from a chemical reaction. Therefore VINNAPAS® B 500/40 VL needs not to be labeled according Regulation 1829/2003/EC and 1830/2003/EC.

Allergen status: VINNAPAS® B 500/40 VL does not contain allergens listed in Directive 2003/89/EC or Directive 2006/142/EC.

If VINNAPAS® B 500/40 VL is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® B 500/40 VL is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

**Safety notes**

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are

available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

**Product data**

Specification data	Inspection Method	Value
Free acetic acid	specific method	< 0,05 %
Residual vinyl acetate monomer	specific method	< 5,0 ppm
Saponification number	specific method	475 - 495 mg KOH/g
Viscosity (10% in ethylacetate)	ASTM D 445 - 06	8 - 12 mPa*s

Typical general characteristics	Inspection Method	Value
Loss on drying	specific method	< 1,0 %
Supply form		solid, pale yellowish blocks, odorless and tasteless
Softening point	ASTM 3104	85 °C
Molecular weight ( $M_w$ )	SEC, PS-Standard	450000
Glass transition temperature	DSC DIN EN ISO 11357-2	approx. 0 °C

Figures below "Typical general characteristics" are intended as a guide and should not be used in preparing specifications.

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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For technical, quality, or product safety questions, please contact:

Wacker Chemie AG  
Hanns-Seidel-Platz 4  
81737 München, Germany  
[info@wacker.com](mailto:info@wacker.com)

[www.wacker.com](http://www.wacker.com)