

VINNAPAS® UW 1 TR

VINYL ACETATE HOMOPOLYMER, CAS NO. 9003-20-7

Product description

VINNAPAS® UW 1 TR is a solid, thermoplastic homopolymer.

The clear and colorless resin is prepared by polymerization of vinyl acetate.

VINNAPAS® UW 1 TR is tasteless.

Application

Typical applications for VINNAPAS® UW 1 TR:

- fiber reinforced plastics
- Adhesives
- powder injection molding
- sound damping

Processing

Product data

Melt viscosity, 100% Polymer

Bohlin high temperature viscosimeter

140 °C ~ 4000 Pa·s

160 °C ~ 1500 Pa·s

180 °C ~ 640 Pa·s

Solid content in styrene Viscosity Brookfield RVT,
20 RPM, 23°C (PML 002)

20 % 180 mPa·s

30 % 1100 mPa·s

40 % 5200 mPa·s

Storage

VINNAPAS® UW 1 TR should not be stored at temperatures above 20 °C in order to prevent caking. 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 12 months.

Packaging

VINNAPAS® UW 1 TR is supplied in 75 kg Fiberdrums.

Additional information

If VINNAPAS® UW 1 TR is used in applications other than those mentioned, the choice, processing and use of VINNAPAS® UW 1 TR 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
Viscosity (10% in ethyl acetate), 20 °C	ASTM D 445 - 06	8 - 11 mPa*s
Volatiles	specific method	< 1,0 wt. %

Values are documented in the certificate of analysis.

Typical general characteristics	Inspection Method	Value
Acid number	specific method	< 0,5 mg KOH/g
Bulk density	DIN 53466	700 - 850 kg/m ³
Supply form	Visual	solid, colorless beads, odorless and tasteless
Density of the polymer	DIN EN ISO 1183 /1-3	approx. 1,18 g/cm ³
K-value	DIN 53726	48 - 54
Softening point	DIN ISO 4625, by Ring and Ball	approx. 120 °C
Molecular weight (M_w)	SEC, PS-Standard	approx. 130000 g/mol
Glass transition temperature	DSC DIN EN ISO 11357-2	approx. 43 °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:

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