

Product Information

Vinnolit

Leadership in PVC

®Vinnolit E 70 TT

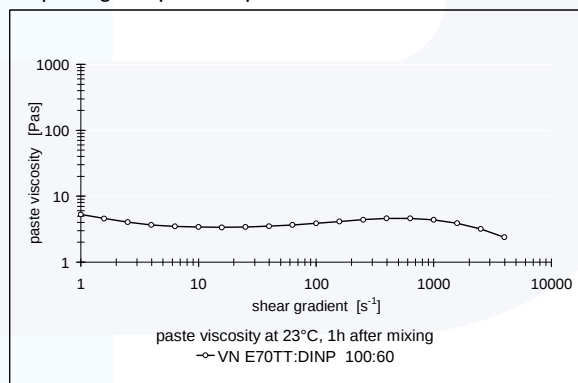
PVC paste making resin

Brief Description

®Vinnolit E 70 TT is a fine particle homopolymeric emulsion grade, designed for paste applications. It can be easily converted into a plastisol with very low viscosity (over broad shear range), strictly newtonian flow behaviour and excellent shelf life (see diagram) with medium plastiziser contents it exhibits no yield point or flow anomalies.

Due to its general flow characteristics, the low paste viscosity level, the very neutral colour appearance and the excellent low water absorption, Vinnolit E 70 TT is perfectly useful for textile coatings (waterproofs, sunsails, tarpaulins, conveyor belts etc.), artificial leather and flooring top coats as well as for rotational moulding and dip coating processes.

The product additionally shows an excellent contact transparency even in thick film applications. A very easy plastisol handling is completing the product profile.



Raw material Properties	Typical Value*	Unit	Test method	
			DIN EN ISO	ISO
K-value	approx. 70	-	1628-2	1628-2
Reduced viscosity	approx. 124	ml/g	1628-2	1628-2
Apparent bulk density	approx. 0.35	g/ml	60	60
Particle size distribution: sieve retention retained on 0.063 mm screen	< 2	%	1624	1624
Volatile matter	< 0.5	%	-	1269
Emulsifier content	low	-	-	-

* The values given above are **typical** test results which should be used as a guide only. They do not form the whole or part of a specification or guarantee.

®Vinnolit = registered trademark of Vinnolit GmbH & Co. KG, Germany

Product Information

Processing and Application

Plastisols based on Vinnolit E 70 TT can be generally applied in compact form (or even slightly foamed) with all common techniques.

In formulations which have less than 60 parts plasticizer, the flow characteristic can be modified by blending with extender resins, such as Vinnolit C 65 V or Vinnolit C 66 W. Blending with appropriate emulsion grades in order to adjust the rheology profile to the requirements of the specific technical manufacturing process is recommended. Therefore a defined pseudoplastic character (e.g. yield point) could be obtained with blending with Vinnolit E 69 ST or Vinnolit E 70 CQ.

Unpigmented films made of Vinnolit E 70 TT containing the appropriate stabilizer are clear and have a semi matting surface. With efficient curing a good translucent transparency could be generated as well.

Remarkable properties of Vinnolit E 70 TT are:

- very low viscosity over whole shear-area, newtonian flow type
- excellent low water absorption
- very good contact transparency
- low yellowing- or pinking effects with heat treatments over several weeks
- neutral own-colour
- good miscibility with extender- or blending resins
- good thermic stability
- high stability of plastisol viscosity
- easy plastisol handling

Packaging, Delivery and Storage

The product is supplied in 25-kg bags.

Vinnolit E 70 TT should be stored dry and away from direct or indirect sources of heat. Please consult the safety data sheet for information about the safety precautions necessary for transport, storage, blending and processing.

General Information

Further processing information and recommendations can be obtained from our Technical Service department or our local representatives.

The data and recommendations contained in this product information represent the current state of our knowledge and serve as a guide only to our products and their potential applications. Therefore, no warranty of specific properties of the products mentioned here in nor of their suitability or fitness for a particular purpose is implied.

The information given in this leaflet 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 used. Patent or other proprietary rights of third parties must be observed. The quality of our products is warranted under the terms of our General Conditions of Sale.

Ismaning, January 2010

Vinnolit GmbH & Co. KG

Carl-Zeiss-Ring 25

D-85737 Ismaning

Tel.: +49 89 9 61 03-0

Fax: +49 89 9 61 03-103

www.vinnolit.com