

Product Information

Vinnolit

Leadership in PVC

®Vinnolit P 70

PVC for paste application

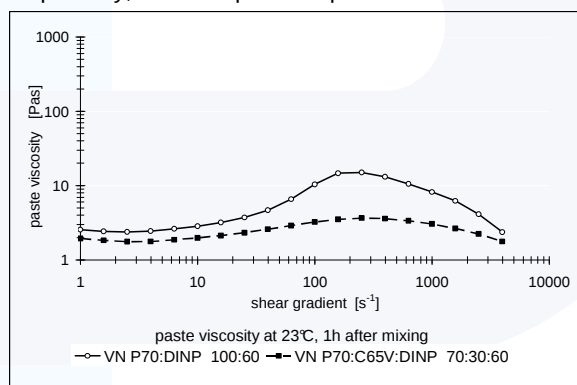
Brief Description

®Vinnolit P 70 is a fine grained homopolymer for plastisol processing giving low-viscosity plastisols with an excellent shelf life.

Vinnolit P 70 pastes with a medium plasticizer content show a Newtonian rheology at low shear rates (Brookfield) and moderate dilatant rheology at high shear rates. The dilatancy can readily be reduced or even eliminated by blending with extender resins such as Vinnolit C 65 V (see diagram) or Vinnolit C 66 W or special emulsion grades.

Vinnolit P 70 has outstanding water resistance and high thermostability/weatherability and is thus ideally suited for long term outdoor applications, e.g., textile constructions, roofing

sheets, tar-paulins, awnings, coil coating, decorative films and, owing to its high transparency, for trans-parent top coats.



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. 0.36	g/ml	60	60
Particle size distribution: sieve retention retained on 0.063 mm screen	< 0.3	%	1624	1624
Volatile matter	< 0.3	%	-	1269
Emulsifier content	extremely 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

Pastes based on Vinnolit P 70 can be applied by all common processing technologies, and even by centrifugal casting or by the punch process to produce compact or foamed closures. This plastisols are also suitable for dipping, casting or spraying.

For processing pastes which have a ratio of less than 100 parts PVC : 60 parts plasticizer the dilatancy can be reduced by blending with extender resins such as Vinnolit C 65 V or Vinnolit C 66 W. Blending with low-viscosity emulsion PVC grades, such as Vinnolit E 70 TT or Vinnolit E 68 CF, may also be perfect for this purpose and resulting in added value properties.

Unpigmented coatings of Vinnolit P 70 containing the appropriate stabilizer are crystal clear and have a very glossy surface.

Apart from being used for the applications mentioned in the brief description above, Vinnolit P 70 can be used for thin-walled, transparent dip coatings, sealants (crown corks, twist-off closures) and, because of its extreme particle fineness, also for organosols, strippable lacquers and primers.

Due to its very low emulsifier content, the product is, however, less suitable for applications involving fusion by contact with heated metal surfaces (contact fusion, rotational moulding). In such cases the addition of a suitable mould release agent is recommended.

The **Core Properties** of P 70 are:

- high transparency and crystal clear films
- glossy homogenous surface
- neutral own-colour and very good thermo-stability
- excellent weathering properties
- lowest water absorption tendency
- Newtonian flow characteristic
- very low initial viscosity
- easy paste handling (deaeration, dispensability, low maturation)
- no yield point
- best adhesion on textile surfaces
- good miscibility with extender – or blending resins
- good metal adhesion
- very good potlife and storage stability
- very fine particles

Packaging, Delivery and Storage

The product is supplied in 25-kg bags as well as in bulk form.

Vinnolit P 70 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.

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