

PRODUCT INFORMATION

®Vinnolit P 70 HT

Vinnolit P 70 HT GreenVin®

Vinnolit P 70 HT GreenVin® bio-attributed

PVC for paste application

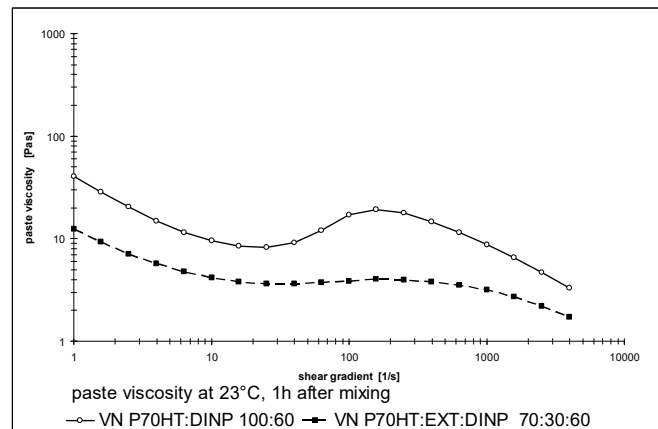
Brief Description

®Vinnolit P 70 HT is a fine grained homo-polymer, designed for paste applications. It can be easily converted into a plastisol with low viscosity, moderate pseudoplastic flow characteristic and excellent shelf-life.

The plastisols made of ®Vinnolit P 70 HT with a medium plasticizer content exhibit a moderate pseudoplastic rheology (see diagram) with slight dilatancy at high shear rates. The dilatancy can be reduced/eliminated by blending with extender resins, such as ®Vinnolit EXT (see diagram) or with specially emulsion grades.

®Vinnolit P 70 HT shows excellent low water absorption characteristics and has outstanding weathering properties combined with a very high thermostability. With these dominant properties it is perfectly useful for outdoor applications

like signs, tarpaulins, awnings, billboards, roofing sheets, textile constructions and coil coatings. The product additionally shows an excellent transparency and very low plate out properties, which makes it profoundly suitable for clear-transparent top coats as well as for printed surfaces (advertising).



RAW MATERIAL PROPERTIES	TYPICAL VALUE*	UNIT	TEST METHOD	
			DIN EN ISO	ISO
K-value	70	-	1628-2	1628-2
Particle size distribution: sieve retention • retained on 0.063 mm screen	≤ 1.0	%	53195	-
Volatile matter	≤ 0.3	%	-	-
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.

Processing and Application

Plastisols based on [®]Vinnolit P 70 HT can be easily processed by all common technologies. The plastisols are also processable in dipping, casting or spraying techniques. For processing pastes which have a ratio of less than 100 parts PVC : 60 parts plasticizer or faster running machines, the dilatancy can be reduced by blending with extender resins such as [®]Vinnolit EXT. Blending with low-viscosity emulsion PVC grades such as [®]Vinnolit E 68 CF or [®]Vinnolit E 70 TT or with e.g. [®]Vinnolit E 69 ST or [®]Vinnolit E 70 CQ, may also be perfect for this purpose and giving additional properties.

The core **properties** of [®]Vinnolit P 70 HT are:

- Medium paste viscosity at low shear rates
- Very high powder fineness
- Very good adhesion at textile fabrics
- Good compatibility with common adhesion promoter
- Low water absorption
- Highest transparency and crystal clear films
- Glossy film surface
- Good thermostability
- Good initial color
- Good printability of the surface

Unpigmented coatings of [®]Vinnolit P 70 HT 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 HT 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 could be advantageous.

Packaging, Delivery and Storage

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

[®]Vinnolit P 70 HT 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.

Vinnolit P 70 HT GreenVin[®] is produced with 100% renewable electricity (GOs). Additionally, renewable Ethylene is used for Vinnolit P 70 HT GreenVin[®] bio-attributed. See GreenVin[®] info sheet.

The information and specifications contained in this product information are, to the best of our knowledge, correct at the time of publication. They are intended solely to provide general information about our products and their possible applications and do not constitute an agreement on quality or a guarantee of specific properties or suitability for a particular purpose. Due to the numerous factors beyond our control relating to storage, processing, and combination with third-party raw materials, the customer is obliged to determine the suitability of the product for the intended use by conducting their own tests and trials. The customer is also obliged to check and observe any third-party industrial property rights before use. Our General Terms and Conditions of Sale apply in addition.

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