

Product Information

Vinnolit

Leadership in PVC

®Vinnolit C 100 V

Extender resin for paste making
PVC specialty product for thermoplastic processing

Brief Description

®Vinnolit C 100 V is a high-molecular weight suspension homopolymer that if blended with a paste making PVC combines the good viscosity-reducing properties of the extender resins Vinnolit C 65 V and Vinnolit C 66 W with pronounced matting effect. When used during thermoplastic processing, it acts as an anti-blocking and matting agent.

Raw Material Properties	Typical Value*	Unit	Test method	
			DIN EN ISO	ISO
K-value	**	-	1628-2	1628-2
Reduced viscosity	**	ml/g	1628-2	1628-2
Apparent bulk density	approx. 0.62	g/ml	60	60
Particle size distribution: sieve retention retained on 0.063 mm screen	< 5	%	4610	4610
retained on 0.090 mm screen	< 1	%	4610	4610
Volatile matter	< 0.3	%	-	1269

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

**K-value cannot be determined exactly.

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

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Processing and Application

Paste making

Vinnolit C 100 V can be dispersed readily in PVC plastisols, without formation of agglomerates. Pastes that contain extenders should not be triple-roll milled since they tend to separate readily in front of the nip. In this case, it is recommended that the pastes be prepared firstly without the extender resin. After milling, the extender resin can be dispersed into the paste by means of a dissolver.

Vinnolit C 100 V has similar processing properties to the extender resins Vinnolit C 65 V and Vinnolit C 66 W. The amount of Vinnolit C 100 V to use depends on the degree of matting required but lies between 10 and 50 % of the total PVC content. Possible combinations are paste resin/Vinnolit C 100 V and paste resin/Vinnolit C 65 V/Vinnolit C 100 V. The quantity of extender resin should not exceed 50 % of the total PVC.

Typical applications are tarpaulins and leather-cloth top coats applied by the direct process. Other applications are flooring top coats, glove dipping (powdering not necessary) and any other coating applications in which the surface remains open during fusion.

Vinnolit C 100 V is not suitable for producing matt surfaces by the transfer process (release paper), contact fusion on hot metal cylinders or rotational moulding. With these processes the gloss is determined largely by the contacted surfaces.

For further information please consult our product information sheets for Vinnolit C 65 V and Vinnolit C 66 W.

Thermoplastic processing

Vinnolit C 100 V serves as an additive in standard formulation for thermoplastic processing. In amounts of < 1 phr, Vinnolit C 100 V acts as an anti-blocking agent, particularly for rigid and flexible film.

Addition of 3–10 phr Vinnolit C 100 V produces a matt surface on calendered, extruded and injection moulded parts. The matting effect can be controlled by varying the amount of Vinnolit C 100 V added.

Packaging, Delivery and Storage

The product is supplied in 25-kg bags.

Vinnolit C 100 V 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 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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