

PRODUCT INFORMATION

®Vinnolit K 221

Vinnolit K 221 GreenVin® | Vinnolit K 221 GreenVin® bio-attributed

High molecular weight PVC specialty product for thermoplastic processing

Brief Description

®Vinnolit K 221 is a fine-particle, free-flowing and high molecular weight specialty product used as additive in PVC compounds to matt or texture surfaces.

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	0.520	g/ml	60	60
Particle size distribution: Sieve retention R				
• retained on 0.090 mm screen	≤ 1	%	4610	4610
Volatile matter	≤ 0.3	%	1269	1269

^{*)} 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.

^{**)} K-Value and reduced viscosity cannot be determined exactly.

Processing and Application

®Vinnolit K 221 is a fine-particle, free-flowing powder that is added to conventional PVC formulations for rigid, semi-rigid or flexible articles. The required amount of ®Vinnolit K 221 is generally 3 to 10 phr.

Due to the high molecular weight, the original particle shape is nearly unaffected by thermoplastic processing. This results in surface textures similar to those obtained by embossing with sandblasted rollers.

In contrast to mechanical embossing, however, the surface textured with ®Vinnolit K 221 is retained during subsequent heating and deforming, such as thermoforming. For injection moulding applications ®Vinnolit K 221 functions both as a matting agent as well as a mould release.

The main application areas are rigid and plasticized films, profiles and injection moulded parts.

®Vinnolit K 221 has the following outstanding **properties**:

- Texturing of surfaces
- Improvement of haptics
- Matting of surfaces
- Surface effects retain during subsequent processing
- Release agent

Packaging, Delivery and Storage

The product is supplied in 25 kg bags.

®Vinnolit K 221 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 K 221 GreenVin® is produced with 100% renewable electricity (GOs). Additionally, renewable Ethylene is used for Vinnolit K 221 GreenVin® bio-attributed. See GreenVin® info sheet.

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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Westlake Vinnolit GmbH & Co. KG

Carl-Zeiss-Ring 25

85737 Ismaning

Germany

Tel.: +49 (0)89 9 61 03-0

Fax: +49 (0)89 9 61 03-103

www.westlakevinnolit.com