

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
Apparent bulk density	0.520	g/ml	60	60
Particle size distribution: sieve retention				
• 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 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 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.

Ismaning, September 2025

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