

# PRODUCT INFORMATION

## ®Vinnolit S 100

Vinnolit S 100 GreenVin®

Vinnolit S 100 GreenVin® bio-attributed

High K-value suspension PVC  
for thermoplastic processing

### Brief Description

®Vinnolit S 100 is an ultra-high molecular weight specialty product for the production of flexible PVC-articles with improved plasticizer acceptance and excellent mechanical performance at elevated temperatures, particularly for rubberlike gaskets with matte surface.

RAW MATERIAL PROPERTIES	TYPICAL VALUE*	UNIT	TEST METHOD	
			DIN EN ISO	ISO
K-value	99	-	1628-2	1628-2
Apparent bulk density	0.430	g/ml	60	60
Particle size distribution: sieve retention				
• retained on 0.063 mm screen	≥ 85	%	4610	4610
• retained on 0.250 mm screen	≤ 1	%	4610	4610
Plasticizer absorption at room temperature	47	%	4608	4608
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.

## Processing and Application

®Vinnolit S 100 is a free-flowing powder with very high porous particles. It may be processed with all standard additives such as plasticizers, stabilizers, lubricants, fillers and pigments similarly to a S-PVC with a lower K value.

®Vinnolit S 100 is mixed by the standard hot or cold mixing methods. Recommended temperatures are 120 °C in the heating mixer and 40 °C in the cooling mixer.

Due to the very high porosity even plasticizers with longer side chains can be accepted by the particles easily which leads to significantly improved mixing cycles.

®Vinnolit S 100 may be processed in the form of a blend or granules on all standard equipment, such as extruders, injection moulding machines and calendars.

Small amounts of ®Vinnolit VK 710 may be added to the blend to facilitate fusion.

Outstanding **properties** of ®Vinnolit S 100:

- Unique high and fast plasticizer absorption
- Ideally suited for „new“ grades of plasticizers with longer side chains
- Very good mechanical properties – especially at high temperatures
- Matting effect

Mixtures containing ®Vinnolit S 100 are mainly used as follows:

- In the **automotive industry** to produce high-quality interior and exterior profiles, tubes and tarpaulins with matt and dry surface
- In the **construction industry** PVC-seals and gaskets with excellent mechanical properties, highly recommended also for PCE
- For **PVC-cables** with very high thermal stability under load

## Packaging, Delivery and Storage

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

®Vinnolit S 100 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 S 100 GreenVin® is produced with 100% renewable electricity (GOs). Additionally, renewable Ethylene is used for Vinnolit S 100 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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