

# PRODUCT INFORMATION

## ®Vinnolit K 707 E

Vinnolit K 707 E GreenVin®

Vinnolit K 707 E GreenVin® bio-attributed

Graft copolymer based on polyvinylchloride (PVC) and polyacrylate (ACR) for thermoplastic processing

### Brief Description

®Vinnolit K 707 E is a free-flowing powder produced by graft polymerization of vinyl chloride onto polyacrylate (ACR).

The product contains roughly 50 % ACR.

®Vinnolit K 707 E is a modifying agent which increases the impact strength of extruded profiles, pipes and sheets.

In plasticized application the plasticizer content can be reduced and its migration decreased.

RAW MATERIAL PROPERTIES	TYPICAL VALUE*	UNIT	TEST METHOD	
			DIN EN ISO	ISO
K-value	**	-	1628-2	1628-2
ACR content	50	%	-	-
Apparent bulk density	0.540	g/ml	60	60
Particle size distribution: sieve retention				
• retained on 0.063 mm screen	≥ 70	%	4610	4610
• retained on 1.000 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 707 E is primarily used to produce low-plasticizer, semi-rigid and soft PVC products with particularly low plasticizer migration.

®Vinnolit K 707 E is mainly used to enhance the impact strength of rigid profiles, sheets and pipes. By adding ®Vinnolit K 707 E to a PVC formulation, rigid articles with high impact strength, high surface quality and weatherability can be extruded. This combination of properties is required for e.g. window profiles.

®Vinnolit K 707 E is also recommended to improve the impact strength of rigid injection moulded articles and of extruded and calendered films.

On account of its high ACR content, ®Vinnolit K 707 E may also serve as the main component for semi-rigid PVC-P applications, or allows to reduce the amount of monomeric plasticizers and decreases its migration in soft applications.

Outstanding **properties** of ®Vinnolit K 707 E are:

- Reduction of plasticizer migration
- Less amount of plasticizer
- Blending with other soft polymers
- Acrylate bound in PVC-matrix
- Excellent weathering resistance
- High impact strength
- Improving surface quality

## Packaging, Delivery and Storage

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

®Vinnolit K 707 E 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 707 E GreenVin® is produced with 100% renewable electricity (GOs). Additionally, renewable Ethylene is used for Vinnolit K 707 E 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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