

degussa.

creating essentials

VESTOSINT® 1111 colored **Polyamide 12 fluidized bed coating powder**

VESTOSINT 1111 colored is a polyamide 12 powder suitable for all-purpose fluidized bed coating.

For more information we recommend our brochure "VESTOSINT – Polyamide 12 Coating Powder".

For further information please contact our experts of the department Marketing Development of the High Performance Polymers Business Unit.

Powder Information

Property	Test method		Unit	VESTOSINT 1111 colored
	international	national		
App. bulk density	ISO 60	DIN EN ISO 60	g/dm ³	≥ 440
Particle size distribution	< 32 µm			= 2 ^{*)}
	< 100 µm	ISO 4610	DIN EN ISO 4610	≥ 45
	< 250 µm			100

Density, water absorption, thermal, mechanical and electrical properties

Property	Test method		Unit	VESTOSINT 1111 colored
	international	national		
Melting point	ISO 3146		°C	176
Density	23 °C	ISO 1183	g/cm ³	1.016 ^{**)}
Shore hardness D	ISO 868			75
Ball indentation hardness	H30	ISO 2039-1	N/mm ²	90
Tensile test	ISO 527-1			
Stress at yield	ISO 527-2		MPa	43 ^{***)}
Strain at yield			%	6 ^{***)}
Strain at break			%	> 100 ^{***)}
Volume resistivity	IEC 60093		Ω · m	10 ¹⁴
Dielectric breakdown voltage	IEC 60243-1			
	K20/P50		kV/mm	90
Water absorption	ISO 62			
100 °C, immersion			%	1.9
Moisture absorption	ISO 62			
23 °C, 96 % r. h.			%	1.3
23 °C, 50 % r. h.			%	0.5
Coef. of linear expansion	ISO 11359	DIN 53752		
23 – 55 °C			10 ⁻⁴ · K ⁻¹	1.09
Thermal conductivity		Referring to DIN 52612	W/m · K	0.23 – 0.29
Specific heat		DIN 53765	J/g · K	2.35
Taber abraser	ASTM D 1242	DIN 53754	mg/100 turns	14

*) The value can reach 4 % with effect colors.

**) Values from 300 µm foils of unpigmented VESTOSINT.

***) Measured at unpigmented products.

® = registered trademark

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the products described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Degussa AG
 High Performance Polymers
 45764 MARL
 GERMANY
 Fax: +49 2365 49-5992
 E-mail: vestosint@degussa