

Product Information

VESTOSINT® 1111 natural color **Polyamide 12 fluidized bed coating powder**

VESTOSINT 1111 natural color is an unpigmented polyamide 12 powder. Among others it is used for transparent fluidized bed coating, manufacturing of magnetic cores and thermoplastic composites.

We also deliver VESTOSINT 1111 in a broad range of different colors.

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

For further information, please contact our experts in the department Market Development of the High Performance Polymers Business Line.

Powder Information

Property	Test method		Unit	VESTOSINT 1111 natural color
	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 natural color	
	international	national			
Melting point	ISO 3146	DIN EN ISO 3146	°C	176	
Density	23 °C	ISO 1183	DIN EN ISO 1183	g/cm ³	1.016
Shore hardness D	ISO 868	DIN EN ISO 868		75	
Ball indentation hardness	H30	ISO 2039-1	DIN EN ISO 2039-1	N/mm ²	90
Tensile test	ISO 527-1	DIN EN ISO 527-1			
Stress at yield	ISO 527-2	DIN EN ISO 527-2	MPa	43	
Stress at yield			%	6	
Strain at break			%	> 100	
Volume resistivity	IEC 60093	DIN IEC 60093	Ω · m	10 ¹⁴	
Dielectric breakdown voltage	IEC 60243-1	DIN EN 60243-1			
	K20/P50		kV/mm	90	
Water absorption	ISO 62	DIN EN ISO 62			
	100 °C, immersion		%	1.9	
Moisture absorption	ISO 62	DIN EN 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	CS17, 500g	ASTM D 1242	DIN 53754	mg/100 turns	< 1

Pigmentation may affect values.

® = registered trademark

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