

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 of the department Marketing Development of the High Performance Polymers Business Unit.

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 < 100 µm < 250 µm	ISO 4610 DIN EN ISO 4610	Weight-%	= 2 ≥ 45 100

Density, water absorption, thermal, mechanical and electrical properties

Property	Test method		Unit	VESTOSINT 1111 natural color
	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 ISO 527-2			
Stress at yield			MPa	43
Stress 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. 23 °C, 50 % r. h.		% %	1.3 0.5
Coef. of linear expansion	ISO 11359 23 – 55 °C	DIN 53752	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

Pigmentation may affect property values.

® = registered trademark

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