

## Product Information

### **VESTOSINT® 1161 white** **Polyamide 12 fluidized bed coating powder**

VESTOSINT 1161 white is a polyamide 12 powder developed for the fluidized bed coating of, e.g., wire goods.

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 1161 white
	international	national		
App. bulk density	ISO 60	DIN EN ISO 60	g/dm <sup>3</sup>	≥ 500
Particle size distribution	< 32 μm			≤ 3
	< 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 1161 white
	international	national		
Melting point	ISO 3146	DIN EN ISO 3146	°C	176
Density	23 °C ISO 1183	DIN EN ISO 1183	g/cm <sup>3</sup>	1.06
Shore hardness D	ISO 868	DIN EN ISO 868		75
Ball indentation hardness	H30 ISO 2039-1	DIN EN ISO 2039-1	N/mm <sup>2</sup>	101
Volume resistivity	IEC 60093	DIN IEC 60093	Ω · m	10 <sup>13</sup>
Dielectric breakdown voltage	IEC 60243-1	DIN EN 60243-1		
	K20/P50		kV/mm	85
Water absorption	ISO 62	DIN EN ISO 62		
	100 °C, immersion		%	1.65
Moisture absorption	ISO 62	DIN EN ISO 62		
	23 °C, 96 % r. h.		%	1.2
	23 °C, 50 % r. h.		%	0.5
Coef. of linear expansion	ISO 11359	DIN 53752		
	23 - 55 °C		10 <sup>-4</sup> · K <sup>-1</sup>	1.04
Thermal conductivity		Referring to DIN 52612	W/m · K	0.22 - 0.27
Specific heat		DIN 53765	J/g · K	2.27
Taber abraser	CS17, 500g ASTM D 1242	DIN 53754	mg/100 turns	< 1

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