

## Product Information

### **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 in the department Market Development of the High Performance Polymers Business Line.**

## Powder Information

Property	Test method		Unit	VESTOSINT 1111 colored
	international	national		
App. bulk density	ISO 60	DIN EN ISO 60	g/dm <sup>3</sup>	≥ 440
Particle size distribution	< 32 µm			≤ 2 <sup>*)</sup>
	< 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	DIN EN ISO 3146	°C	176	
Density	23 °C	ISO 1183	DIN EN ISO 1183	g/cm <sup>3</sup>	1.016 <sup>**)</sup>
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>	90
Tensile test	ISO 527-1	DIN EN ISO 527-1			
Stress at yield	ISO 527-2	DIN EN ISO 527-2	MPa	43 <sup>***)</sup>	
Strain at yield			%	6 <sup>***)</sup>	
Strain at break			%	> 100 <sup>***)</sup>	
Volume resistivity	IEC 60093	DIN IEC 60093	Ω · m	10 <sup>14</sup>	
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 <sup>-4</sup> · K <sup>-1</sup>	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	

<sup>\*)</sup> The value can reach 4 % with effect colors.

<sup>\*\*)</sup> Values from 300 µm foils of unpigmented VESTOSINT.

<sup>\*\*\*)</sup> Measured at unpigmented products.

® = registered trademark

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