

## Product Information

### **VESTOSINT® 2158 natural color**

#### **Powder for coating systems**

VESTOSINT 2158 natural color is a polyamide 12 fine powder for the use in liquid coating systems. It is used as an additive for instance in coil coating systems to improve abrasion resistance and T-bend test.

For more information we recommend our brochure "VESTOSINT – Fine Powder at its Best".

**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 2158 natural color
	international	national		
App. bulk density	ISO 60	DIN EN ISO 60	g/dm <sup>3</sup>	≥ 280
Average particle size	d50	Laser diffraction analysis (Sympatec Helos)	µm	approx. 20

## Density, water absorption, thermal, mechanical and electrical properties

Property	Test method		Unit	VESTOSINT 2158 natural color
	international	national		
Melting point	ISO 3146	DIN EN ISO 3146	°C	184
Density	23 °C ISO 1183	DIN EN ISO 1183	g/cm <sup>3</sup>	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 <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
Strain at yield			%	6
Strain at break			%	> 100
Volume resistivity	IEC 60093	DIN IEC 60093	Ω · m	10 <sup>12</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

Pigmentation may affect values.

® = registered trademark

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