

## **VESTOSINT® 2158 natural color**

### **Powder for coating systems**

VESTOSINT2158 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 of the department Marketing Development of the High Performance Polymers Business Unit.**

## 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	appr. 20

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

Property	Test method		Unit	VESTOSINT 2158 natural color
	international	national		
Melting point	ISO 3146		°C	184
Density	23 °C ISO 1183		g/cm <sup>3</sup>	1.016
Shore hardness D	ISO 868			75
Ball indentation hardness	H30 ISO 2039-1		N/mm <sup>2</sup>	90
Tensile test	ISO 527-1 ISO 527-2			
Stress at yield			MPa	43
Strain at yield			%	6
Strain at break			%	> 100
Volume resistivity	IEC 60093		Ω · m	10 <sup>12</sup>
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.			%	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 53 754	mg/100 turns	14

Pigmentation may affect property values.

® = registered trademark

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