

## **VESTOSINT® 2161 natural color**

### **Powder for coating systems**

VESTOSINT 2161 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 2161 natural color
	international	national		
App. bulk density	ISO 60	DIN EN ISO 60	g/dm <sup>3</sup>	≥ 300
Average particle size	d50	Laser diffraction analysis (Sympatec Helos)	µm	appr. 26

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

Property	Test method		Unit	VESTOSINT 2161 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
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.

\*) Due to the fact that there has been only one production we cannot inform about the range of particle size or bulk density. Therefore the values are temporary until we have produced a minimum of 5 batches.

® = registered trademark

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