

## Product Information

**VESTOSINT® 1164 white**

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**Powder for coating systems**

VESTOSINT 1164 white respectively 1174 white are nylon 12 fine powders which are specially developed for the minicoat process of small articles, e.g. corsetry or ferrit rings. VESTOSINT 1164 white and 1174 white are used additionally in paints.

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 1164 white 1174 white
	international	national		
App. bulk density	ISO 60	DIN EN ISO 60	g/dm <sup>3</sup>	≥ 400
Particle size distribution	< 32 µm < 63 µm < 160 µm	ISO 4610	DIN EN ISO 4610	Weight-% < 30 > 75 ≥ 99
Average particle size	d50	Laser diffraction analysis (Malvern Mastersizer)		µm approx. 50

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

Property	Test method		Unit	VESTOSINT 1164 white 1174 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>12</sup>
Dielectric breakdown voltage	IEC 60243-1 K20/P50	DIN EN 60243-1	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 53 754	mg/100 turns	< 1

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