

VESTOSINT® 1164 white / VESTOSINT® 1174 white

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

Powder Information

Property	Test method		Unit	VESTOSINT 1164 white 1174 white
	international	national		
App. bulk density	ISO 60	DIN EN ISO 60	g/dm ³	≥ 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 appr. 50

Density, water absorption, thermal, mechanical and electrical properties

Property	Test method		Unit	VESTOSINT 1164 white 1174 white
	international	national		
Melting point	ISO 3146		°C	176
Density	23 °C	ISO 1183	g/cm ³	1.06
Shore hardness D	ISO 868			75
Ball indentation hardness	H30	ISO 2039-1	N/mm ²	101
Volume resistivity	IEC 60093		Ω · m	10 ¹²
Dielectric breakdown voltage	IEC 60243-1			
	K20/P50		kV/mm	85
Water absorption	ISO 62			
	100 °C, immersion		%	1.65
Moisture absorption	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 ⁻⁴ · K ⁻¹	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	ASTM D 1242	DIN 53 754	mg/100 turns	15

® = registered trademark

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