

Product Information

VESTOSINT® 1141 colored **Polyamide 12 fluidized bed coating powder**

VESTOSINT 1141 colored is a standard fluidized bed coating powder based on polyamide 12. It is especially suitable for the coating of wire goods.

For more information we recommend our brochure "VESTOSINT – Polyamide 12 Coating Powder".

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 1141 colored
	international	national		
App. bulk density	ISO 60	DIN EN ISO 60	g/dm ³	≥ 480
Particle size distribution	< 32 µm			≤ 2 ¹⁾
	< 100 µm	ISO 4610	DIN EN ISO 4610	≥ 45
	< 250 µm			100

¹⁾ Effectpigments may increase the value.

Density, water absorption, thermal, mechanical and electrical properties

Property	Test method		Unit	VESTOSINT 1141 colored
	international	national		
Melting point	ISO 3146	DIN EN ISO 3146	°C	176
Density	23 °C ISO 1183	DIN EN ISO 1183	g/cm ³	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 ²	101
Tensile test	ISO 527-1	DIN EN ISO 527-1		
Stress at yield	ISO 527-2	DIN EN ISO 527-2	MPa	42
Strain at yield			%	6
Strain at break			%	> 100
Volume resistivity	IEC 60093	DIN IEC 60093	Ω · m	10 ¹²
Dielectric breakdown voltage	IEC 60243-1	DIN EN 60243-1		
	K20/P50		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 ⁻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	2.35
Taber abraser	ASTM D 1242	DIN 53754	mg/100 turns	15

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