

Product Information

VESTOSINT® 5151 colored **Powder for fluidized bed coating**

VESTOSINT 5151 colored are fluidized bed coating powders which are based on nylon 12 with integrated primer. Applications will be found e.g. for the coating of tubes in the water industry.

VESTOSINT 5151 colored is available in

- black,
- white and
- pebble grey (referring to RAL 7032).

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 5151 colored
	international	national		
App. bulk density	ISO 60	DIN EN ISO 60	g/dm ³	≥ 320
Particle size distribution	< 32 µm			≤ 4
	< 100 µm	ISO 4610	DIN EN ISO 4610	30 – 60
	< 250 µm			100

Density, water absorption, thermal, mechanical and electrical properties

Property	Test method		Unit	VESTOSINT 5151 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
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	2.27	
Taber abraser	ASTM D 1242	DIN 53754	mg/100 turns	15	

^{*)} Tested on unpigmented films with 300µm thickness.

® = registered trademark

This information and all further technical advice are based on Evonik Degussa's present knowledge and experience. However, Evonik Degussa assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, Evonik Degussa disclaims all conditions and warranties, whether expressed or implied, including the implied warranties of fitness for a particular purpose or merchantability. Evonik Degussa shall not be responsible for consequential, indirect or incidental damages (including loss of profits) of any kind. Evonik Degussa reserves the right to make any changes according to technological progress or further developments. It is the customer's responsibility and obligation to carefully inspect and test any incoming goods. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for any such testing. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of any product and does not imply that similar products could not be used.