

VESTOSINT® 1174 white

Polyamide 12

Evonik Industries AG

Message:

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.

General Information			
Uses	Paint Thin Coatings		
Appearance	White		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.06	g/cm ³	ISO 1183
Apparent Density	> 0.40	g/cm ³	ISO 60
Water Absorption			ISO 62
Saturation, 100°C ¹	1.7	%	
Saturation, 23°C ²	1.2	%	
Equilibrium, 23°C, 50% RH	0.50	%	
Average Particle Size ³	50	µm	
Particle Size Distribution			ISO 4610
< 32.0 µm	< 30.0	wt%	
< 63.0 µm	> 75.0	wt%	
< 160.0 µm	> 99.0	wt%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	75		ISO 868
Ball Indentation Hardness ⁴	101	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (100 Cycles, 500 g, CS-17 Wheel)	< 1.00	mg	ASTM D1242
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	176	°C	ISO 3146
CLTE - Flow (23 to 55°C)	1.0E-4	cm/cm/°C	ISO 11359-2
Specific Heat	2270	J/kg/°C	DIN 53765
Thermal Conductivity	0.22 to 0.27	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	IEC 60093
Electric Strength ⁵	85	kV/mm	IEC 60243-1
NOTE			

1.	Immersion
2.	96%RH
3.	Laser diffraction analysis (Malvern Mastersizer), d50
4.	H30
5.	K20/P50

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