

VESTOSINT® 1141 gray 9.7200

Polyamide 12
Evonik Industries AG

Message:

Polyamide 12 fluidized bed coating powders
VESTOSINT 1141 gray 9.7200 and white 9.1123 are polyamide 12 powders especially developed for the fluidized bed coating of wire goods, e.g., dishwasher baskets.

General Information			
Uses	Coating Applications		
	Wire Jacketing		
Appearance	Grey		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.06	g/cm ³	ISO 1183
Apparent Density	> 0.52	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	%	
Particle Size Distribution			ISO 4610
< 32.0 µm	< 2.5	wt%	
< 100.0 µm	> 45.0	wt%	
< 250.0 µm	100.0	wt%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	75		ISO 868
Ball Indentation Hardness ³	101	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	42.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	6.0	%	
Break	> 100	%	
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 ⁴	85	kV/mm	IEC 60243-1
NOTE			
1.	Immersion		
2.	96%RH		
3.	H30		
4.	K20/P50		

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