

VESTOSINT® 1111 natural color

Polyamide 12
Evonik Industries AG

Message:

VESTOSINT 1111 natural color is an unpigmented polyamide 12 powder. Among others it is used for transparent fluidized bed coating, manufacturing of magnetic cores and thermoplastic composites.
We also deliver VESTOSINT 1111 in a broad range of different colors.

General Information			
Uses	Coating Applications		
Appearance	Colors Available		
	Natural Color		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.02	g/cm³	ISO 1183
Apparent Density	> 0.44	g/cm³	ISO 60
Water Absorption			ISO 62
Saturation, 100°C ¹	1.9	%	
Saturation, 23°C ²	1.3	%	
Equilibrium, 23°C, 50% RH	0.50	%	
Particle Size Distribution			ISO 4610
< 32.0 µm	< 2.0	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	90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	43.0	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)	1.1E-4	cm/cm/°C	ISO 11359-2
Specific Heat	2350	J/kg/°C	DIN 53765
Thermal Conductivity	0.23 to 0.29	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength ⁴	90	kV/mm	IEC 60243-1
NOTE			
1.	Immersion		
2.	96%RH		
3.	H30		
4.	K20/P50		

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