

VESTOSINT® 2157 natural color

Polyamide 12
Evonik Industries AG

Message:

Powder for fluidized bed coating, minicoat and liquid coating and composites
VESTOSINT 2157 is a polyamide 12 fine powder for the use in liquid coating systems. It is used as an additive for instance in coil coating systems, to improve abrasion resistance and T-bend test. It also can be used in minicoating of small iron parts, e.g., foundation corsetry or ferrite rings.
VESTOSINT 2157 is also available in different colors.

General Information			
Uses	Coating Applications		
	Compounding		
	Protective Coatings		
	Thin Coatings		
Appearance	Colors Available		
	Natural Color		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.02	g/cm ³	ISO 1183
Apparent Density	> 0.35	g/cm ³	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	%	
Average Particle Size ³	56	µm	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	75		ISO 868
Ball Indentation Hardness ⁴	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)	184	°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+14	ohms·cm	IEC 60093
Electric Strength ⁵	90	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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