

VESTOSINT® 2161 natural color

Polyamide 12
Evonik Industries AG

Message:

Polyamide 12 for electrostatic coating and liquid coating system.
VESTOSINT 2161 natural color is a PA 12, especially developed for electrostatic coating of metal parts, e.g., coating of components in the automotive industry.
VESTOSINT 2161 is also developed 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.

General Information			
Uses	Coating Applications		
	Protective Coatings		
Appearance	Natural Color		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.02	g/cm ³	ISO 1183
Apparent Density	> 0.30	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	26	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 (Sympatec Helos), d50
4.	H30
5.	K20/P50

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