

VESTOSINT® 2178 white

Polyamide 12

Evonik Industries AG

Message:

VESTOSINT 2178 white is a titandioxide filled 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.

General Information			
Additive	Titanium Dioxide (TiO ₂)		
Features	Good Abrasion Resistance		
Uses	Coating Applications		
Appearance	White		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.23	g/cm ³	ISO 1183
Apparent Density	> 0.38	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	20	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	> 50	%	
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, d50
4.	H30
5.	K20/P50

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

