

Venslide MD FG (Pastel Blue)

Technical Data Sheet



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Engineering Plastic Solutions

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Product Description

Indispensable in the food sector. Venslide MD FG combines the properties of a high-quality plastic with the detectability that is required in the food sector. Plastic particles of plant components can be found and removed by all commonly available metal detectors. This means that using Venslide MD FG can enable increased food safety.

Applications

- Machined Parts
- Medical Industry
- Scrapers
- Food Industry
- Wear Strips
- Wear Resistant Bearings
- Profiles and Segments
- Chain Guides

Key Features and Benefits

- Metal-Detectable
- Very Good Slide Properties
- Heat Stabilized
- Excellent Shock and Impact Resistance
- Good Anti-Adhesion Properties

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Technical Properties

	Value	Unit	DIN	ISO/EC
Molecular Weight	9x10 ⁶	g/mol		
Code	1.1			15527:2013
Density	~1.14	Kg/dm ³	53479	1183
Water Absorption – saturation at 23°C	<0,01	%	53715	

Mechanical Properties

	Value	Unit	DIN	ISO/EC
Yield/Break stress	~20	MPa	53455	527
Breaking elongation	>200	%	53455	527
Zug-E-Modul	>600	MPa	53457	
Notch impact Strength – Charpy	≥100	kJ/m ²	53453	179
Shore hardness D	62-64	°	868	7619-1
Ball hardness	>35	N/mm ²	53456	2039
Sand Slurry Test	100	%		15527
Coefficient of sliding friction Steel (0.25m/s, 0.25N/mm ²)	~0.2			
Coefficient of sliding friction POM (0.25m/s, 0.25N/mm ²)				

Electric Properties

	Value	Unit		Verification
Electrical strength	≤45	KV/mm	53481	60243
Specific constant resistance	>10 ¹²	Ω x cm	53482	60093
Surface resistance	>10 ¹²	Ω	53482	60093

Thermal Properties

	Value	Unit	DIN	ISO/EC
Melting point	130-135	°C		3146 method C
Heat conductivity 23°C	0.4	W (K x m)	52612	
Linear thermal coefficient of expansion α (average value between 23 and 60 °C)	20x10 ⁻⁵	m/(K x m)	53752	11359-2
Upper service Temperature in air short term	120	°C		
Upper service Temperature in air constant (5000h)	100	°C	53446	
Lower service Temperature	-200	°C		
Burning behavior per UL94 – sample thickness 3/6mm	HB			

Physiological properties

	Value	Unit	DIN	ISO/EC
Approved for use in food industry (FDA)	Yes			
Approved for use in food industry (EU)	No			

The values shown in the table, enable to compare materials faster. These values are short-term values, which can be influenced by processing, environmental as well as application conditions. Therefore, these values do not represent assured properties. It is due to the customer's responsibility whether the chosen material is suitable for its specific application.