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Gantiel Vensott Engineering Plastic Solutions

## **Product Description**

Uncompromising recycling. Venslide Fender black is our mixed sustainable plastic. All leftovers and chippings of our various technical PE plastics are fed back into the material cycle to increase the sustainability of our products. Venslide Fender black is an economical material that provides top quality. It is particularly suitable for applications with outrigger pads and moving tracks.

## **Applications**

enslide Fender (Black Confetti

echnical Data Sheet

UHMWPE)

Crane outrigger pads Road mats Workpiece carriers Harbour construction

## **Other Material Properties**

Good wear resistance Good slide properties Good shock and impact resistance Good anti-adhesion properties

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Technical Properties         Molecular Weight         Code         Density         Water Absoption – saturation at 23°C         Mechanical Properties         Yield/Break stress         Breaking elongation         Coefficient of Elasticity (pulling test)         Notch impact Strength – Charpy         Shore hardness D         Ball hardness         Sand Slurry Test	Value ≤0,96 <0,01 Value	Unit g/mol Kg/dm <sup>3</sup> % Unit MPa	DIN 53479 53715 DIN 53455	ISO/EC 15527:2013 1183 ISO/EC
Code Density Water Absoption – saturation at 23°C Mechanical Properties Yield/Break stress Breaking elongation Coefficient of Elasticity (pulling test) Notch impact Strength – Charpy Shore hardness D Ball hardness	≤0,96 <0,01 <b>Value</b> ≥50	g/mol Kg/dm <sup>3</sup> % Unit MPa %	53479 53715 DIN	15527:2013 1183
Code Density Water Absoption – saturation at 23°C Mechanical Properties Yield/Break stress Breaking elongation Coefficient of Elasticity (pulling test) Notch impact Strength – Charpy Shore hardness D Ball hardness	<0,01 <b>Value</b> ≥50	Kg/dm <sup>3</sup> % Unit MPa %	53715 DIN	1183
Density Water Absoption – saturation at 23 <sup>o</sup> C Mechanical Properties Yield/Break stress Breaking elongation Coefficient of Elasticity (pulling test) Notch impact Strength – Charpy Shore hardness D Ball hardness	<0,01 <b>Value</b> ≥50	% Unit MPa %	53715 DIN	1183
Water Absoption – saturation at 23 <sup>o</sup> C Mechanical Properties Yield/Break stress Breaking elongation Coefficient of Elasticity (pulling test) Notch impact Strength – Charpy Shore hardness D Ball hardness	<0,01 <b>Value</b> ≥50	% Unit MPa %	53715 DIN	
Mechanical Properties Yield/Break stress Breaking elongation Coefficient of Elasticity (pulling test) Notch impact Strength – Charpy Shore hardness D Ball hardness	Value ≥50	Unit MPa %	DIN	ISO/EC
Breaking elongation Coefficient of Elasticity (pulling test) Notch impact Strength – Charpy Shore hardness D Ball hardness	≥50	MPa %		ISO/EC
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Breaking elongation Coefficient of Elasticity (pulling test) Notch impact Strength – Charpy Shore hardness D Ball hardness		%	53455	
Coefficient of Elasticity (pulling test) Notch impact Strength – Charpy Shore hardness D Ball hardness				527-2
Notch impact Strength – Charpy Shore hardness D Ball hardness			53455	527-2
Shore hardness D Ball hardness		MPa	53457	527-2
Ball hardness		kJ/m <sup>2</sup>	53453	179
	61-66	0	868	7619-1
Sand Slurry Test	>30	N/mm <sup>2</sup>	53456	2039
	160	%		15527
Coefficient of sliding friction Steel (0.25m/s, 0.25N/mm <sup>2</sup> )	~0,2	μ		
Coefficient of sliding friction POM				
(0.25m/s, 0.25N/mm <sup>2</sup> )				
Electric Properties				
	Value	Unit		Verification
Electrical strength		KV/mm	53481	60243
Specific constant resitance		$\Omega$ x cm	53482	60093
Surface resistance		Ω	53482	60093
Thermal Properties	Value	Unit	DIN	ISO/EC
Melting point 1	30-135	00m		3146 method
- ·		-	50040	3140 method
Heat conductivity 23°C	0,4	W (K x m)	52612	
Linear thermal coefficient of expansion $\alpha$ (average value between 23 and 60 °C)	20x10⁻⁵	m/(K x m)	53752	11359-2
Upper service Termperature in air short term	90	ΟC		
Upper service Termperature in air constant (5000h)	80	°C	53446	
Lower service Termperature	-200	O <sub>0</sub>		
Burning behavior per UL94 – sample thickness 3/6mm	HB			
Physilogical properties	Value	Unit	DIN	ISO/EC
Physilogical properties	value			130/EC
Physilogical properties Approved for use in food industry (FDA)	No			130/EC

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

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