Venslide Fender (Black Confetti UHMWPE)

Technical Data Sheet

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Gantiel Vensott

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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

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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Produced by Mital Joshi

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Technical Properties

	Value	Unit	DIN	ISO/EC
Molecular Weight		g/mol		
Code				15527:2013
Density	≤0,96	Kg/dm^3	53479	1183
Water Absoption – saturation at 23^{O}C	<0,01	%	53715	

Mechanical Properties

	Value	Unit	DIN	ISO/EC
Yield/Break stress		MPa	53455	527-2
Breaking elongation		%	53455	527-2
Coefficient of Elasticity (pulling test)		MPa	53457	527-2
Notch impact Strength – Charpy	≥50	kJ/m^2	53453	179
Shore hardness D	61-66	^{O}	868	7619-1
Ball hardness	>30	N/mm^2	53456	2039
Sand Slurry Test	160	%		15527
Coefficient of sliding friction Steel (0.25m/s, 0.25N/mm^2)	~0,2	µ		
Coefficient of sliding friction POM (0.25m/s, 0.25N/mm^2)				

Electric Properties

	Value	Unit		Verification
Electrical strength		KV/mm	53481	60243
Specific constant resitance		Ω x cm	53482	60093
Surface resistance		Ω	53482	60093

Thermal Properties

	Value	Unit	DIN	ISO/EC
Melting point	130-135	^{0}C		3146 method C
Heat conductivity 23^{0}C	0,4	W (K x m)	52612	
Linear thermal coefficient of expansion α (average value between 23 and 60 ^{0}C)	20x10^{-5}	m/(K x m)	53752	11359-2
Upper service Termperature in air short term	90	^{0}C		
Upper service Termperature in air constant (5000h)	80	^{0}C	53446	
Lower service Termperature	-200	^{0}C		
Burning behavior per UL94 – sample thickness 3/6mm	HB			

Physilogical properties

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

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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