

PRODUCT INFORMATION - SPECIFICATIONSHEET OK 2000 - F-Ex No. 999

25.09.2007

OKULEN® OK 2000 F-Ex is a virgin UHMW-PE polymer (9,2 mio. g/mol) with advanced flame retardant properties. This material is halogen free! Even with the additive used to extinguish the flame, great gliding properties and good wear resistance are still achieved through using the highest polymer possible. With its high impact strength, it was designed for such applications in conveyor systems used in the mining field.

The flame retardant classification is measured to UL (Underwriters Laboratories) standard using the method UL94 = V0, vertical flame test.

Properties:
 Flame retardant
 halogen free
 anti-static properties
 low friction for great wear properties
 UV-stabilized for outside use
 High wear resistance for heavy duty applications

Color: black-silver no. 999

Tested against following flammability standards and corresponding rating:

DIN 5510-2 flammability grade S4
 FMVSS 302 does not burn
 UL 94 V-0

Application fields:
 off-road transportation,
 construction industry
 mechanical engineering
 mining industry

Characteristics and standard values

Physical Properties	Method	Unit	Value
Density	ISO 1183-1	g/cm ³	1.01
Abrasion (Sand-Slurry-Test)	ISO/DIS 15527	%	125
Notched Impact Strength (Charpy)	ISO 11542-2	mJ/mm ²	> 80
Tensile strength	ISO 527	N/mm ²	> 17
Break elongation	ISO 527	%	> 50
Creep properties under varying compressive stress < 10 % in 7 days	max.	N/mm ²	10
Coefficient of friction	ASTM 1894	static μ	0.15
		dynamic μ	0.08
Shore-Hardness	ISO 868	D	62
Water absorption		%	< 0.1
Thermal Properties			
Melt point DSC	ISO 3146	°C	135 - 137
Permanente operation temperature, max.	---	°C	80
Coefficient of linear expansion	ISO 11359	23 – 80°C	$\approx 2.0 \times 10^{-4} / ^\circ\text{C}$
Electrical Properties			
Volume resistivity	IEC 60093	$\Omega \cdot \text{cm}$	$\leq 10^6$
Surface resistivity	IEC 60093	Ω	$\leq 10^9$

The above data are based on the present knowledge and are given without guarantee.
 Existing laws and conditions are to be respected by the user of our products.

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