

PRODUCT INFORMATION - SPECIFICATIONSHEET OK 2000 - GB No. 675 + 983 + 820

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OKULEN® OK 2000 – GB is enhanced with a glass filler which gives the UHMW-PE (9,2 mio. g/mol) a higher abrasion resistance than standard material. It offers excellent impact strength for tough applications. The 983 is colored black for out door use and is UV-stabilized.

Properties: extremely wear resistant
good sliding properties
good chemical resistance
BfR approved
low maintenance
longer life time over standard UHMW PE

Color: green 675
black 983
dark brown 820

Application fields: Machine construction
conveyor industry
agriculture, farming equipment
waste water and filtration systems
paper industry (wet section of a paper machine)

Characteristics and standard values

Physical Properties	Method	Unit	Value
Density	ISO 1183-1	g/cm ³	0.95
Abrasion (Sand-Slurry-Test)	ISO/DIS 15527	%	65
Notched Impact Strength (Charpy)	ISO 11542-2	mJ/mm ²	> 120
Tensile strength	ISO 527	N/mm ²	> 18
Break elongation	ISO 527	%	> 50
Creep properties under varying compressive stress < 10 % in 7 days	max.	N/mm ²	11
Coefficient of friction	ASTM 1894	static μ	0.14
		dynamic μ	0.09
Shore-Hardness	ISO 868	D	65
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	$\Omega \cdot \text{cm}$	< 10^{14}
Surface resistivity	IEC 60093	Ω	< 10^{13}

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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