

PRODUCT INFORMATION - SPECIFICATIONSHEET OK 2000 - MO No. 962

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OKULEN® OK2000 – MO No. 962 is a UHMW Polymer (9,2 Mio. g/mol) with high abrasion resistance and excellent sliding properties. Because of the low coefficient of friction this material allows even lower transmission power.

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

Color: dark grey colored no. 962

Application fields: conveying industry
machine construction

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	%	80
Notched Impact Strength (Charpy)	ISO 11542-2	mJ/mm ²	> 100
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	0.11
		dynamic μ	0.08
Shore-Hardness	ISO 868	D	63
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	$\approx 1.7 \times 10^{-4} / ^\circ\text{C}$
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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