

PRODUCT INFORMATION - SPECIFICATIONSHEET OK 2000 - GRM No. 956

25.09.2007

OKULEN® OK 2000 GRM-956 is a further developed product based on OK 2000 MR-963. This material has been developed for high tech paper-making machines. It is a sintered ultra-high molecular weight polyethylene (UHMW-PE, 9,2 mio. g/mol) Polymer with molybdenum disulphide and UV-stabilizers. Here additionally a special graphite additive was admitted. In order to get the friction values on as low a level as possible.

Properties: extremely wear resistant
very low coefficient of friction
excellent sliding properties
good chemical resistance
low maintenance
UV-stabilized

Color: black-grey colored no. 956

Application fields: high-tech paper machine construction

Characteristics and standard values

Physical Properties	Method	Unit	Value
Density	ISO 1183-1	g/cm ³	0.948
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	0.07
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.

Ottensteiner Kunststoff GmbH & Co. KG •

P.O. Box 3151 • D-48672 Ahaus
Phone (02561) 9824-0 • Fax (02561) 98 24 99
Internet: www.okulen.com

sheet and finished products

Im Garbrock 39
D-48683 Ahaus-Ottenstein/Germany
E-Mail: info@okulen.com