

PRODUCT INFORMATION**OKULEN® 2000 - GB -yellow green- FN6754**

OKULEN® OK 2000 – GB is enhanced with a glass filler which gives the UHMW-PE (7 - 9 mio. g/mol) a higher abrasion resistance than standard material. It offers excellent impact strength for tough applications.

Properties:

- extremely wear resistant
- good sliding properties
- good chemical resistance
- low maintenance
- longer life time over standard UHMW-PE
- EU1935/2004 - conform
- EU10/2011 - conform

Colour:

yellow green FN6754

Range of applications:

- Machine construction
- Conveyor industry
- Agriculture, farming equipment
- Waste water and filtration systems
- Paper industry (wet section of a paper machine)

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Characteristics and standard values

Properties	Method	OKULEN® 2000 - GB -yellow green- FN6754	
		SI	US
Physical properties			
Molecular-weight	k.a.	7.0 - 9.0 Mio. g/mol.	7.0 - 9.0 Mio. g/mol.
Density	DINENISO 1183-1 (09/2019) ASTM D792	> 0.95 g/cm ³	> 59.306 lb/ft ³
Notched impact strength	DINENISO 21304-2 (04/2021)	> 120 kJ/m ²	> 57.06 ft-lb/in ²
Abrasion-Index (Sand-Slurry)	DINENISO 15527 (05/2022)	75	75
Tensile strength at yield (1B - 50mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 18 N/mm ²	> 2610 psi
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Elongation (Break / 1B - 50mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 250 %	> 250 %
Tensile-E-modulus (1B - 1mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 680 N/mm ²	> 98600 psi
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Static Friction	ASTM D 1894 (2014)	~ 0.14	~ 0.14
Dynamic Friction	ASTM D 1894 (2014)	~ 0.09	~ 0.09
Shore-D-Hardness, 3 sec. value 6 mm plate	DINENISO 868 (10/2003)	65 - 70 D	65 - 70 D
Ball indentation hardness	DINENISO 2039	~ 38 N/mm ²	~ 5510 psi
Water absorption	DINENISO 62 (05/2008)	< 0.1 %	< 0.1 %
Thermal properties			
Melting Point (DSC)	DINENISO 11357-1 (03/2010)	135 - 137 °C	275 - 278.6 °F
Thermal Conductivity	Wire method	~ 0.41 W/m*K	~ 2.84253 (BTU-in)/hr-ft ² -°F
Max. operation temperature	Literature	~ 80 °C	~ 176 °F
Coefficient of thermal expansion (23 - 80°C)	ISO 11359	~ 0.00015 - 0.00020 mm/mm °C	~ 0.000083 - 0.000111 in/in °F
Electrical properties			
Volume resistivity	DINEN 62631-3-1 (01/2017)	> 1.0E14 Ohm*cm	> 1.0E14 Ohm*cm
Surface resistivity	DINEN 62631-3-2 (10/2016)	> 1.0E13 Ohm	> 1.0E13 Ohm
ATEX-Directive - TÜV approved!	ATEX-Directive	---	---
ESD-D	---	--- Ohm	--- Ohm
Burning properties			
Fire resistance (Self-classification)	DIN 4102	B2 Klasse	B2 Class
Fire resistance (Self-classification)	UL94	HB Klasse	HB Class
Physiological properties			
Food compliant		EU	EU

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