


PRODUCT INFORMATION
OKULEN® 2000 - L plus - grey - FN7020

OKULEN® OK 2000 – L plus is a oil filled UHMW Polymer. This material was designed for the conveying industry. The enhanced lubricated oil filler helps on high speed chains or heavy dry run areas of the conveyor. Further, it helps reduce noise levels with its excellent gliding properties. This UHMW is known for its great impact strength and abrasion resistance surface quality.

Properties: good abrasion resistance,
great gliding properties,
water repellent,
great noise reduction,
lubricant stays on surface (oil),
no greasing required!

Colour: grey FN7020

 OK-Nr 7020

Range of applications: Conveyor industry,
Bearings

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Characteristics and standard values

Properties	Method	OKULEN® 2000 - L plus - grey - FN7020	
		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	> 0.930 g/cm ³	> 58.058 lb/ft ³
Notched impact strength	DINENISO 21304-2 (04/2021)	> 80 kJ/m ²	> 38.04 ft-lb/in ²
Abrasion-Index (Sand-Slurry)	DINENISO 15527 (05/2022)	80	80
Tensile strength at yield (1B - 50mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 16 N/mm ²	> 2320 psi
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Elongation (Break / 1B - 50mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 200 %	> 200 %
Tensile-E-modulus (1B - 1mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 300 N/mm ²	> 43500 psi
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Static Friction	ASTM D 1894 (2014)	~ 0.15	~ 0.15
Dynamic Friction	ASTM D 1894 (2014)	~ 0.09	~ 0.09
Shore-D-Hardness, 3 sec. value 6 mm plate	DINENISO 868 (10/2003)	58 - 60 D	58 - 60 D
Ball indentation hardness	DINENISO 2039	--- N/mm ²	--- psi
Water absorption	DINENISO 62 (05/2008)	< 0.01 %	< 0.01 %
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		---	---

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