

PRODUCT INFORMATION
OKULEN® 2000 - OF - grey - FN7010

OKULEN® OK 2000 – OF 7010 is a oil filled UHMW Polymer. This material was designed to perform in conveying systems used in the food industry. 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 gliding properties
- Water repellent
- Great noise reduction
- EU1935/2004 - conform
- EU10/2011 - conform
- FDA - conform

Colour:

grey FN7010



OK-Nr 7010

Range of applications:Conveyor industry,
Bearings

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Characteristics and standard values

Properties	Method	OKULEN® 2000 - OF - grey - FN7010	
Physical properties		SI	US
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/cm³	> 58.058 lb/ft³
Notched impact strength	DINENISO 21304-2 (04/2021)	> 100 kJ/m²	> 47.55 ft-lb/in²
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)	> 17 N/mm²	> 2465 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)	> 600 N/mm²	> 87000 psi
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Static Friction	ASTM D 1894 (2014)	~ 0.17	~ 0.17
Dynamic Friction	ASTM D 1894 (2014)	~ 0.11	~ 0.11
Shore-D-Hardness, 3 sec. value 6 mm plate	DINENISO 868 (10/2003)	61 - 63 D	61 - 63 D
Ball indentation hardness	DINENISO 2039	--- N/mm²	--- 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-ft²-°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/FDA	EU/FDA

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. The decision about the suitability of a material for a certain application must be made by the user. We reserve the right to alter the indicated data. The indicated values are for a 15 mm thick sheet, unannealed. Black sheets may have antistatic properties.

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