

**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**Ottensteiner Kunststoff GmbH & Co. KG**

Im Garbrock 39, 48683 Ahaus-Ottenstein Germany

Phone: +49 (0) 2561-9824-0

Internet: [www.okulen.com](http://www.okulen.com)e-mail: [info@okulen.com](mailto:info@okulen.com)

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## Characteristics and standard values

Properties	Method	OKULEN® 2000 - OF - grey - FN7010	
		SI	US
<b>Physical properties</b>			
Molecular-weight	k.a.	7.0 - 9.0 Mio. g/mol.	7.0 - 9.0 Mio. g/mol.
Density	DINENISO 1183-1 (09/2025) (Method A)	> 0.930 g/cm <sup>3</sup>	> 58.058 lb/ft <sup>3</sup>
Notched impact strength	DINENISO 21304-2 (04/2021) (3 mm Double-V-Notch)	> 100 kJ/m <sup>2</sup>	> 47.55 ft-lb/in <sup>2</sup>
Abrasion-Index (Sand-Slurry)	DINENISO 15527 (05/2022)	80	80
Tensile strength at yield (A2 - 50mm/Min.)	DINENISO 527-2 (09/2025) ASTM D 638 (2022)	> 17 N/mm <sup>2</sup>	> 2465 psi
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Elongation (Break / A2 - 50mm/Min.)	DINENISO 527-2 (09/2025) ASTM D 638 (2022)	> 250 %	> 250 %
Tensile-E-modulus (A2 - 1mm/Min.)	DINENISO 527-2 (09/2025) ASTM D 638 (2022)	> 600 N/mm <sup>2</sup>	> 87000 psi
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Static Friction	ASTM D 1894 (2024) (vs. Steel: Surface roughness Rz2)	~ 0.17	~ 0.17
Dynamic Friction	ASTM D 1894 (2024) (vs. Steel : Surface roughness Rz2)	~ 0.11	~ 0.11
Shore-D-Hardness, 15 sec. value 6 mm plate	DINENISO 868 (10/2003)	61 - 63 D	61 - 63 D
Ball indentation hardness	DINENISO 2039-1 (06/2003)	--- N/mm <sup>2</sup>	--- psi
Water absorption	DINENISO 62 (05/2008)	< 0.01 %	< 0.01 %
<b>Thermal properties</b>			
Melting Point (DSC)	DINENISO 11357-3 (09/2025)	135 - 137 °C	275 - 278.6 °F
Thermal Conductivity	Wire method	~ 0.41 W/m*K	~ 2.84253 (BTU-in)/hr-ft <sup>2</sup> -°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
<b>Electrical properties</b>			
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
<b>Burning properties</b>			
Fire resistance (Self-classification)	DIN 4102	B2 Klasse	B2 Class
Fire resistance (Self-classification)	UL94	HB Klasse	HB Class
<b>Physiological properties</b>			
Food compliant		EU/FDA	EU/FDA
<small>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.</small>			

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