

**PRODUCT INFORMATION**  
**OKULEN® 2000 - blue - FN5884**

OKULEN® OK 2000 - blue - FN5884 is an UHMW-PE polymer with a low coefficient of friction. It is a lining material that has been perfected to solve material flow problems.

Properties:

- good sliding properties
- improved low coefficient of friction
- good notched impact strength
- very good wear resistant
- UV stabilized
- EU1935/2004 - conform
- EU10/2011 - conform
- FDA - conform

Colour:

blue FN5884

Range of applications:

- bulk goods handling
- Conveyor industry
- Earth moving conveyors
- Chuts, Hoppers, Silos, buckets etc.

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## Characteristics and standard values

Properties	Method	OKULEN® 2000 - blue - FN5884	
		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)	> 0.940 g/cm <sup>3</sup>	> 58.682 lb/ft <sup>3</sup>
Notched impact strength	DINENISO 21304-2 (04/2021) (3 mm Double-V-Notch)	> 120 kJ/m <sup>2</sup>	> 57.06 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)	> 300 %	> 300 %
Tensile-E-modulus (A2 - 1mm/Min.)	DINENISO 527-2 (09/2025) ASTM D 638 (2022)	> 650 N/mm <sup>2</sup>	> 94250 psi
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Static Friction	ASTM D 1894 (2024) (vs. Steel: Surface roughness Rz2)	~ 0,16	~ 0.16
Dynamic Friction	ASTM D 1894 (2024) (vs. Steel : Surface roughness Rz2)	~ 0,12	~ 0.12
Shore-D-Hardness, 15 sec. value 6 mm plate	DINENISO 868 (10/2003)	63 - 65 D	63 - 65 D
Ball indentation hardness	DINENISO 2039-1 (06/2003)	~ 36 N/mm <sup>2</sup>	~ 5220 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

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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