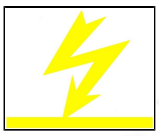
PRODUCT INFORMATION
OKULEN® 1000 Reg.-black-AST-FN9200

OKULEN® 1000-Reg. (UHMW-PE)
Ultra high molecular weight low pressure polyethylene with regenerated (recycled) materials.

Properties:	• conductive / Antistatic reduced • UV - stabilized
	 
Colour:	black FN9200 / simillar RAL9005
Range of applications:	• Mechanical engineering • Conveying industry

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Characteristics and standard values

Properties	Method	OKULEN® 1000 Reg.-black-AST-FN9200	
Physical properties		**SI**	**US**
Molecular-weight	k.a.	> 2.0 Mio. g/mol.	> 2.0 Mio. g/mol.
Density	DINENISO 1183-1 (09/2025) (Method A)	> 0.940 g/cm³	> 58.682 lb/ft³
Notched impact strength	DINENISO 21304-2 (04/2021) (3 mm Double-V-Notch)	> 70 kJ/m²	> 33.285 ft-lb/in²
Abrasion-Index (Sand-Slurry)	DINENISO 15527 (05/2022)	130 - 150	130 - 150
Tensile strength at yield (A2 - 50mm/Min.)	DINENISO 527-2 (09/2025) ASTM D 638 (2022)	> 20 N/mm²	> 2900 psi
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Elongation (Break / A2 - 50mm/Min.)	DINENISO 527-2 (09/2025) ASTM D 638 (2022)	> 150 %	> 150 %
Tensile-E-modulus (A2 - 1mm/Min.)	DINENISO 527-2 (09/2025) ASTM D 638 (2022)	> 700 N/mm²	> 101500 psi
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Static Friction	ASTM D 1894 (2024) (vs. Steel: Surface roughness Rz2)	~ 0.16 - 0.22	~ 0.16 - 0.22
Dynamic Friction	ASTM D 1894 (2024) (vs. Steel : Surface roughness Rz2)	~ 0.10 - 0.16	~ 0.10 - 0.16
Shore-D-Hardness, 15 sec. value 6 mm plate	DINENISO 868 (10/2003)	62 - 67 D	62 - 67 D
Ball indentation hardness	DINENISO 2039-1 (06/2003)	36 N/mm²	5220 psi
Water absorption	DINENISO 62 (05/2008)	< 0,01 %	< 0.01 %
Thermal properties			
Melting Point (DSC)	DINENISO 11357-3 (09/2025)	133 - 137 °C	271.4 - 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	~ 0.00020 mm/mm °C	~ 0.000111 in/in °F
Electrical properties			
Volume resistivity	DINEN 62631-3-1 (01/2017)	< 1.0E6 Ohm*cm	< 1.0E6 Ohm*cm
Surface resistivity	DINEN 62631-3-2 (10/2016)	< 1.0E6 Ohm	< 1.0E6 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		---	---

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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