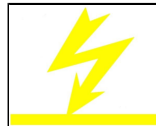


**PRODUCT INFORMATION**  
**OKULEN® 2000 - DryRun - FN9120**

OKULEN® 2000 - DryRun - FN9120 is a superior UHMW Polymer with a very high molecular weight. This special material was designed for the packaging and machine industry. Excellent for use in dry run conveyor applications. The antistatic / conductive filler reduces static build up on fast moving equipment. The product fullfills the requirements of the ATEX - Directive for values of resistivity. It was tested on representative samples by the TÜV-Nord (Germany).

Properties:

- conductive / antistatic reduced
- Atex - conform
- reduced coefficient of friction
- low coefficient of friction
- UV-stabilized
- noise level reduction
- very good wear resistance
- for extremely low speed
- EU1935/2004 - conform
- EU10/2011 - conform
- FDA - conform

Colour:

black FN9120 / similar RAL9005

Range of applications:

- Conveying industry
- Packaging industry

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**PRODUCT INFORMATION**  
**OKULEN® 2000 - DryRun - FN9120**

## Characteristics and standard values

Properties	Method	OKULEN® 2000 - DryRun - FN9120	
		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 (09/2019) ASTM D792	> 0.930 g/cm <sup>3</sup>	> 58.058 lb/ft <sup>3</sup>
Notched impact strength	DINENISO 21304-2 (04/2021)	> 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 (1B - 50mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 19 N/mm <sup>2</sup>	> 2755 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/mm <sup>2</sup>	> 87000 psi
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Static Friction	ASTM D 1894 (2014)	~ 0.14 - 0.17	~ 0.14 - 0.17
Dynamic Friction	ASTM D 1894 (2014)	~ 0.08 - 0.13	~ 0.08 - 0.13
Shore-D-Hardness, 3 sec. value 6 mm plate	DINENISO 868 (10/2003)	61 - 65 D	61 - 65 D
Ball indentation hardness	DINENISO 2039	~ 35 N/mm <sup>2</sup>	~ 5075 psi
Water absorption	DINENISO 62 (05/2008)	< 0.1 %	< 0.1 %
<b>Thermal properties</b>			
Melting Point (DSC)	DINENISO 11357-1 (03/2010)	134 - 137 °C	273.2 - 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)	<= 1.0E5 Ohm*cm	<= 1.0E5 Ohm*cm
Surface resistivity	DINEN 62631-3-2 (10/2016)	<= 1.0E5 Ohm	<= 1.0E5 Ohm
ATEX-Directive - TÜV approved!	ATEX-Directive	Ja / Yes	Ja / Yes
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.