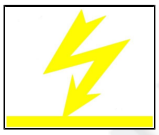
PRODUCT INFORMATION
OKULEN® 2000 - DryRun - FN9120

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 / simillar RAL9005

Range of applications:

- Conveying industry
- Packaging industry

Ottensteiner Kunststoff GmbH & Co. KG
Im Garbrock 39, 48683 Ahaus-Ottenstein
Germany
Phone: +49 (0) 2561-9824-0
Internet: www.okulen.com
e-mail: info@okulen.com

PRODUCT INFORMATION
OKULEN® 2000 - DryRun - FN9120

Characteristics and standard values

Properties	Method	OKULEN® 2000 - DryRun - FN9120	
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)	> 19 N/mm²	> 2755 psi
	---	---	---
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
	---	---	---
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/mm²	~ 5075 psi
Water absorption	DINENISO 62 (05/2008)	< 0.1 %	< 0.1 %
Thermal properties			
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-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)	<= 1.0E5 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
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

Ottensteiner Kunststoff GmbH & Co. KG
Im Garbrock 39, 48683 Ahaus-Ottenstein
Germany
Phone: +49 (0) 2561-9824-0
Internet: www.okulen.com
e-mail: info@okulen.com