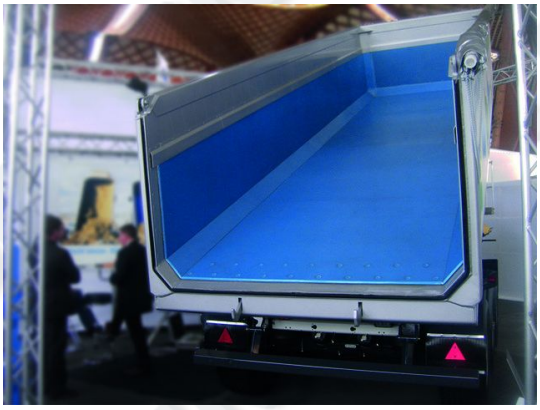
PRODUCT INFORMATION
OKUSLIDE® Premium blue FN5893

OKUSLIDE® - Premium Blue FN5893 is an Ultra-High-Molecular-Weight-PolyEthylene (UHMW-PE polymer). By adding of special additives it possesses a low coefficient of friction. The improved low coefficient of friction (non-stick surface) makes this material ideal for lining applications were sticking or caking creates a build up of material. In such application were there is a material flow problem, time and money is at a loss. Our UHMW-PE liner will help you solve these problems.



Properties:

- excellent sliding properties
- low coefficient of friction
- good notched impact strength
- very good wear resistance
- probably no sticking or caking of bulk materials
- UV stabilized
- EU & FDA conform for food contact

FOOD GRADE

Colour: blue FN5893 / simillar RAL5019

Range of applications:

- Truck liners for tippers
- Conveyor industry (earth moving equipment)

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Characteristics and standard values

Properties	Method	OKUSLIDE® Premium blue FN5893	
Physical properties		**SI**	**US**
Molecular-weight	k.a.	~ 5.0 Mio. g/mol.	~ 5.0 Mio. g/mol.
Density	DINENISO 1183-1 (04/2013) ASTM D792	> 0.930 g/cm³	> 58.058 lb/ft³
Notched impact strength	DINENISO 11542-2 (01/2010)	> 150 kJ/m²	> 71.325 ft-lb/in²
Abrasion-Index (Sand-Slurry)	DINENISO 15527 (05/2013)	100	100
Tensile strength (1B - 50mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 17 N/mm²	> 2465 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)	> 650 N/mm²	> 94250 psi
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Static Friction	ASTM D 1894 (2011)	~ 0.15	~ 0.15
Dynamic Friction	ASTM D 1894 (2011)	~ 0.09	~ 0.09
Shore-D-Hardness, 3 sec. value 6 mm plate	DINENISO 868 (10/2003)	~ 62 D	~ 62 D
Ball indentation hardness	DINENISO 2039	--- N/mm²	--- psi
Water absorption	DINENISO 62 (05/2008)	< 0.01 %	< 0.01 %
Thermal properties			
Melting Point (DSC)	DINENISO 11357-1 (03/2010)	135 - 137 °C	275 - 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)	> 1.0E14 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
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

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.

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