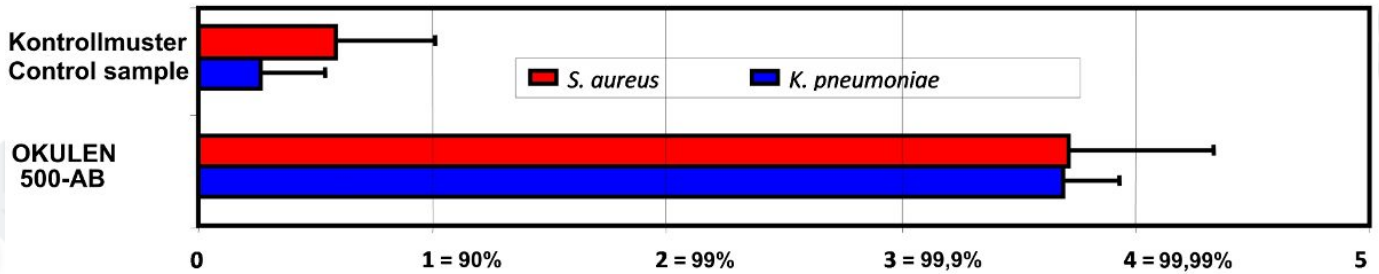


PRODUCT INFORMATION
OKULEN® 500 - AB - blue - FN5990

OKULEN® OK 500 – AB – FN5990 anti-microbial is a HMW-PE Polymer. It has excellent anti-microbial protection. The protection range which has been measured is 99,99 % against bacteria “Staphylococcus aureus ATCC6538P” and “Klebsiella pneumoniae ATCC 4352”. This grade is EU & FDA compliant for food industry.



Properties:

- excellent anti-microbial protection
- water repellent
- FDA - conform
- EU1935/2004 - conform
- EU10/2011 - conform



Colour:

blue - FN5990 / similar RAL 5015

Range of applications:

- Hospital protection boards
- Food industry

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

PRODUCT INFORMATION
OKULEN® 500 - AB - blue - FN5990

Characteristics and standard values

Properties	Method	OKULEN® 500 - AB - blue - FN5990	
		SI	US
Physical properties			
Molecular-weight	k.a.	~ 0.5 Mio. g/mol.	~ 0.5 Mio. g/mol.
Density	DINENISO 1183-1 (09/2019) ASTM D792	> 0.950 g/cm ³	> 59.306 lb/ft ³
Notched impact strength	DINENISO 21304-2 (04/2021)	> 15 kJ/m ²	> 7.1325 ft-lb/in ²
Abrasion-Index (Sand-Slurry)	DINENISO 15527 (05/2022)	360 - 440	360 - 440
Tensile strength at yield (1B - 50mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 26 N/mm ²	> 3770 psi
	---	---	---
Elongation (Break / 1B - 50mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 350 %	> 350 %
Tensile-E-modulus (1B - 1mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 1000 N/mm ²	> 145000 psi
	---	---	---
Static Friction	ASTM D 1894 (2014)	~ 0.15 - 0.20	~ 0.15 - 0.20
Dynamic Friction	ASTM D 1894 (2014)	~ 0.10 - 0.15	~ 0.10 - 0.15
Shore-D-Hardness, 3 sec. value 6 mm plate	DINENISO 868 (10/2003)	65 - 70 D	65 - 70 D
Ball indentation hardness	DINENISO 2039	--- N/mm ²	--- 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-ft ² -°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)	> 1E14 Ohm*cm	> 1E14 Ohm*cm
Surface resistivity	DINEN 62631-3-2 (10/2016)	> 1E13 Ohm	> 1E13 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, unannealed. Black sheets may have antistatic properties.