Ottensteiner Kunststoff GmbH & Co. KG

OKULEN®

PRODUCT INFORMATION - SPECIFICATIONSHEET
OK 2000 - AB No. 995

25.09.2007

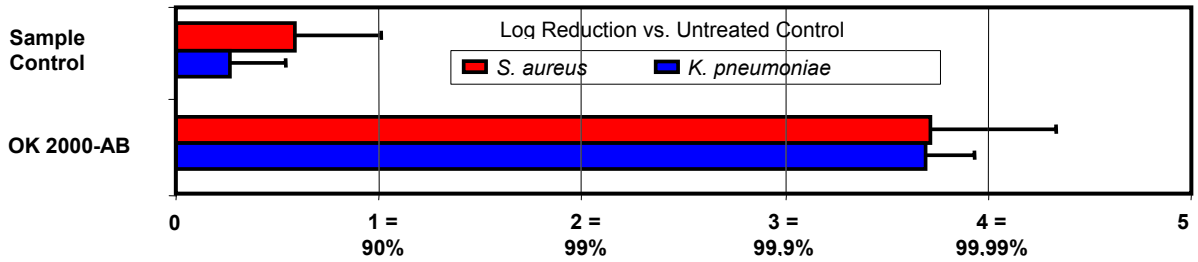
OKULEN® OK 2000 – AB 995 anti-microbial is a UHMW-PE Polymer (9,2 mio. g/mol). It has excellent anti-microbial protection. The protection range which has been measured is 99,99 % against bacteria "Staphylococcus aureus ATCC6538P" and "Klebsiella pneumoniae ATCC 4352". This grade is FDA compliant for food industry.

Properties: excellent anti-microbial protection
water repellent
FDA + BfR approved

Color: natural (white) 995

Application fields: Hospital protection boards,
Food industry

Efficacy of anti-microbial additive in OK 2000-AB



Characteristics and standard values

Physical Properties	**Method**	**Unit**	**Value**
Density	ISO 1183-1	g/cm³	0.94
Abrasion (Sand-Slurry-Test)	ISO/DIS 15527	%	80
Notched Impact Strength (Charpy)	ISO 11542-2	mJ/mm²	> 130
Tensile strength	ISO 527	N/mm²	> 17
Break elongation	ISO 527	%	> 50
Creep properties under varying compressive stress < 10 % in 7 days	max.	N/mm²	10
Coefficient of friction	ASTM 1894	static μ dynamic μ	0.18 0.13
Shore-Hardness	ISO 868	D	62
Water absorption		%	< 0.1
Thermal Properties			
Melt point DSC	ISO 3146	°C	135 - 137
Permanente operation temperature, max.	---	°C	80
Coefficient of linear expansion	ISO 11359	23 – 80°C	$\approx 2.0 \times 10^{-4}$ /°C
Electrical Properties			
Volume resistivity	IEC 60093	Ω*cm	$> 10^{14}$
Surface resistivity	IEC 60093	Ω	$> 10^{13}$

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.

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