

PRODUCT INFORMATION
OK 500 - AST FN9200

OKULEN® 500 is a high molecular low pressure polyethylene with a molecular weight of approx. 500.000 g/mol.

Colour: black
 OK-FN:
 9200

Characteristics and standard values

Properties	Method	OK 500 - AST FN9200	
		SI	US
Physical properties			
Molecular-weight	k.a.	0,5 Mio. g/mol.	0.5 Mio. g/mol.
Density	ASTM D792	0,960 g/cm ³	59.931 lb/ft ³
Notched impact strength	ISO 11542-2 (01/1999)	10 kJ/m ²	4.755 ft-lb/in ²
Abrasion-Index (Sand-Slurry)	DINENISO 15527 (05/2013)	360 - 440 %	360 - 440 %
Tensile strength	ASTM D 638 (2010)	25 N/mm ²	3625 psi
Breaking strength	ASTM D 638 (2010)	25 N/mm ²	3625 psi
Elongation (Break)	ASTM D 638 (2010)	> 150 %	> 150 %
Tensile-E-modulus	ASTM D 638 (2010)	1100 N/mm ²	159500 psi
Flexural modulus	ASTM D 790 (2010)		
Static Friction	ASTM D 1894 (2011)	~ 0,15 - 0,22	~ 0.15 - 0.22
Dynamic Friction	ASTM D 1894 (2011)	~ 0,10 - 0,15	~ 0.10 - 0.15
Shore-D-Hardness, 3 sec. value 6 mm plate	ISO 868 (10/2003)	65 - 67 D	65 - 67 D
Ball indentation hardness	ISO 2039	50 N/mm ²	7250 psi
Water absorption	ISO 62 (05/2008)	< 0,01 %	< 0.01 %
Thermal properties			
Melting Point (DSC)	ISO 11357-1 (03/2010)	133 - 136 °C	271.4 - 276.8 °F
Thermal Conductivity	Wire method	0,41 W/m*K	2.46 (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	IEC 60093 (12/1993)	< 1.0E5 Ohm*cm	< 1.0E5 Ohm*cm
Surface resistivity	IEC 60093 (12/1993)	< 1.0E5 Ohm	< 1.0E5 Ohm
Atec-Directive	Atec-Directive	Ja	Ja
ESD-D			
Burning properties			
Fire resistance	DIN 4102	B2 Klasse	B2 Class
Fire resistance	UL 94	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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