

PRODUCT INFORMATION
OK 500 Reg. FN9000

OKULEN® 500-Reg. (PE-HMW) High molecular weight low pressure polyethylene with regenerated materials. We guarantee constant quality levels for regenerated materials!

Colour: black
 OK-FN:
 9000

Characteristics and standard values

Properties	Method	OK 500 Reg. FN9000	
		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)	15 kJ/m ²	7.1325 ft-lb/in ²
Abrasion-Index (Sand-Slurry)	DINENISO 15527 (05/2013)	350 - 450 %	350 - 450 %
Tensile strength	ASTM D 638 (2010)	20 N/mm ²	2900 psi
Breaking strength	ASTM D 638 (2010)	20 N/mm ²	2900 psi
Elongation (Break)	ASTM D 638 (2010)	> 150 %	> 150 %
Tensile-E-modulus	ASTM D 638 (2010)	900 N/mm ²	130500 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 -137 °C	271.4 -278.6 °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)	< 1.0E14 Ohm*cm	< 1.0E14 Ohm*cm
Surface resistivity	IEC 60093 (12/1993)	< 1.0E13 Ohm	< 1.0E13 Ohm
Atec-Directive	Atec-Directive		
ESD-D			
Burning properties			
Fire resistance	DIN 4102	B2 Klasse	B2 Class
Fire resistance	UL 94	HB Klasse	HB Class
Physiological properties			
Food compliant		---	---

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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