

PRODUCT INFORMATION
OK 500 FN0000

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

Colour: natural
 OK-FN:
 0000

Characteristics and standard values

| Properties | Method | OK 500 FN0000 | |
|--|--------------------------|----------------------------|--------------------------------------|
| | | SI | US |
| Physical properties | | | |
| Molecular-weight | k.a. | 0.5 Mio. g/mol. | 0.5 Mio. g/mol. |
| Density | ASTM D792 | 0.950 g/cm ³ | 59.306 lb/ft ³ |
| Notched impact strength | ISO 11542-2 (01/1999) | 25 kJ/m ² | 11.8875 ft-lb/in ² |
| Abrasion-Index (Sand-Slurry) | DINENISO 15527 (05/2013) | 360 - 440 % | 360 - 440 % |
| Tensile strength | ASTM D 638 (2010) | 26 N/mm ² | 3770 psi |
| Breaking strength | ASTM D 638 (2010) | 30 N/mm ² | 4350 psi |
| Elongation (Break) | ASTM D 638 (2010) | >350 % | >350 % |
| 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 - 0,20 | ~ 0.15 - 0.20 |
| 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) | > 1.0E+14 Ohm*cm | > 1.0E+14 Ohm*cm |
| Surface resistivity | IEC 60093 (12/1993) | > 1.0E+13 Ohm | > 1.0E+13 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 | | 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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