

PRODUCT INFORMATION
OKULEN® PP H - natural - FN0000

OKULEN® PP H - FN0000 is a natural polypropylene homopolymer with high melt viscosity for compression moulding. The product has a high heat- and extraction stability.

Properties:

- high stiffness and hardness (PP is harder than polyethylene PE)
- good chemical resistance
- high heat deflection temperature
- easy to work and weld

Colour:

natural FN0000

Range of applications:

- Chemical industry
- Punching pads
- Filter plates

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Characteristics and standard values

| Properties | Method | OKULEN® PP H - natural - FN0000 | |
|--|---|---------------------------------|---|
| | | SI | US |
| Physical properties | | | |
| Molecular-weight | k.a. | --- Mio. g/mol. | --- Mio. g/mol. |
| Density | DINENISO 1183-1 (09/2019) ASTM D792 | > 0.905 g/cm ³ | > 56.497 lb/ft ³ |
| Notched impact strength | DINENISO 21304-2 (04/2021) | > 10 kJ/m ² | > 4.755 ft-lb/in ² |
| Abrasion-Index (Sand-Slurry) | DINENISO 15527 (05/2022) | --- | --- |
| Tensile strength at yield (1B - 50mm/Min.) | DINENISO 527-2 (06/2012) ASTM D 638 (2010) | > 30 N/mm ² | > 4350 psi |
| | --- | --- | --- |
| Elongation (Break / 1B - 50mm/Min.) | DINENISO 527-2 (06/2012) ASTM D 638 (2010) | --- % | --- % |
| Tensile-E-modulus (1B - 1mm/Min.) | DINENISO 527-2 (06/2012) ASTM D 638 (2010) | 1300 N/mm ² | 188500 psi |
| | --- | --- | --- |
| Static Friction | ASTM D 1894 (2014) | --- | --- |
| Dynamic Friction | ASTM D 1894 (2014) | --- | --- |
| Shore-D-Hardness, 3 sec. value 6 mm plate | DINENISO 868 (10/2003) | 74 - 77 D | 74 - 77 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) | 158 - 165 °C | 316.4 - 329 °F |
| Thermal Conductivity | Wire method | ~ 0.22 W/m*K | ~ 1.52526 (BTU-in)/hr-ft ² -°F |
| Max. operation temperature | Literature | 100 °C | 212 °F |
| Coefficient of thermal expansion (23 - 80°C) | ISO 11359 | ~0.0001 - 0.0002 mm/mm °C | ~0.000056 - 0.000111 in/in °F |
| Electrical properties | | | |
| Volume resistivity | DINEN 62631-3-1 (01/2017) | > 1.0E15 Ohm*cm | > 1.0E15 Ohm*cm |
| Surface resistivity | DINEN 62631-3-2 (10/2016) | > 1.0E15 Ohm | > 1.0E15 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 |

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