

**PRODUCT INFORMATION**  
**OKULEN<sup>®</sup> PP H - Pebble grey - FN7032**

OKULEN<sup>®</sup> PP H - FN7032 is a polypropylene homopolymer, grey coloured similar to RAL 7032 (pebble grey) 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:

Pebble grey FN7032 / similar RAL7032

Range of applications:

- Chemical industry
- Punching pads
- Filter plates

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## Characteristics and standard values

Properties	Method	OKULEN® PP H - Pebble grey - FN7032	
		SI	US
<b>Physical properties</b>			
Molecular-weight	k.a.	--- Mio. g/mol.	--- Mio. g/mol.
Density	DINENISO 1183-1 (09/2019) ASTM D792	> 0.905 g/cm <sup>3</sup>	> 56.497 lb/ft <sup>3</sup>
Notched impact strength	DINENISO 21304-2 (04/2021)	> 10 kJ/m <sup>2</sup>	> 4.755 ft-lb/in <sup>2</sup>
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 <sup>2</sup>	> 4350 psi
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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 <sup>2</sup>	188500 psi
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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 <sup>2</sup>	--- psi
Water absorption	DINENISO 62 (05/2008)	< 0.01 %	< 0.01 %
<b>Thermal properties</b>			
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 <sup>2</sup> -°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
<b>Electrical properties</b>			
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
<b>Burning properties</b>			
Fire resistance (Self-classification)	DIN 4102	B2 Klasse	B2 Class
Fire resistance (Self-classification)	UL94	HB Klasse	HB Class
<b>Physiological properties</b>			
Food compliant		EU/FDA	EU/FDA

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