

PRODUCT INFORMATION
OKULEN® PVDF natural - FN0000

Characteristics and standard values

Properties	Method	OKULEN® PVDF natural - FN0000	
		SI	US
Physical properties			
Molecular-weight	k.a.	--- Mio. g/mol.	--- Mio. g/mol.
Density	DINENISO 1183-1 (09/2019) ASTM D792	1.78 g/cm ³	111.122 lb/ft ³
Notched impact strength	DINENISO 21304-2 (04/2021)	--- kJ/m ²	--- 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)	> 35 N/mm ²	> 5075 psi
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Elongation (Break / 1B - 50mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	> 20 %	> 20 %
Tensile-E-modulus (1B - 1mm/Min.)	DINENISO 527-2 (06/2012) ASTM D 638 (2010)	>1500 N/mm ²	>217500 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)	75 - 77 D	75 - 77 D
Ball indentation hardness	DINENISO 2039	--- N/mm ²	--- psi
Water absorption	DINENISO 62 (05/2008)	< 0.04 %	< 0.04 %
Thermal properties			
Melting Point (DSC)	DINENISO 11357-1 (03/2010)	170 - 175 °C	338 - 347 °F
Thermal Conductivity	Wire method	0.19 W/m*K	1.31727 (BTU-in)/hr-ft ² -°F
Max. operation temperature	Literature	150 °C	302 °F
Coefficient of thermal expansion (23 - 80°C)	ISO 11359	0.00010 - 0.00015 mm/mm °C	0.000056 - 0.000083 in/in °F
Electrical properties			
Volume resistivity	DINEN 62631-3-1 (01/2017)	> 1.0E14 Ohm*cm	> 1.0E14 Ohm*cm
Surface resistivity	DINEN 62631-3-2 (10/2016)	> 1.0E14 Ohm	> 1.0E14 Ohm
ATEX-Directive - TÜV approved!	ATEX-Directive	---	---
ESD-D	---	--- Ohm	--- Ohm
Burning properties			
Fire resistance (Self-classification)	DIN 4102	--- Klasse	--- Class
Fire resistance (Self-classification)	UL94	V0 Klasse	V0 Class
Physiological properties			
Food compliant		FDA	FDA

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