

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

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, unannealed. Black sheets may have antistatic properties.

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