Ottensteiner Kunststoff GmbH & Co. KG

OKULEN®

PRODUCT INFORMATION – SPECIFICATIONSHEET
OKULEN – PVDF – NATUR

18.09.2007

OKULEN® PVDF is a non-reinforced, partly crystalline polymer fluoride which has got good mechanical, thermal and electrical properties and also an excellent chemical resistance. Due to properties **OKULEN® PVDF** is a material suitable for various applications which is mainly used in the following industries : Petrochemical, chemical, metallurgical, pharmaceutical, food and pump industry.

PROPERTIES

- high mechanical strength, rigidity and toughness
- high impact strength, also at low temperatures
- excellent ageing stability
- excellent resistance against chemicals and hydrolysis
- wide temperature range from - 40° to + 120°C
- good gliding properties
- excellent abrasion resistance
- good electrical insulation properties
- physiologically harmless (approved for food industry)
- very high dimensional stability
- inherent flame resistance
- very good resistance against high-energy radiation (above the other polymer fluoride)

DELIVERY PROGRAMME

discs with diameter up to 1300 mm
Centrifugal Pumps, Pumphousing, (acc. to customers design)
thickness : up to 350 mm

Special forms and special sizes by request.

special shapes and applications (acc. to customers design)

discs:

rings:

metallic inserts:

Ottensteiner Kunststoff GmbH & Co. KG •
P.O. Box 3151 • D-48672 Ahaus
Phone (02561) 9824-0 • Fax (02561) 98 24 99
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sheet and finished products
Im Garbrock 39
D-48683 Ahaus-Ottenstein/Germany
E-Mail: info@okulen.com

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Standard values

Properties	Test method	Unit	Value
Density	ISO 1183-1	g/cm³	1,78
Tensile stress at yield tensile	ASTM D 638	N/mm²	48
Strength at break	ASTM D 638	N/mm²	41
Notched impact (Izod)	ASTM D 256	J/m	100
E-modulus (Tensile test)	ASTM D 638	N/mm²	1320
E-modulus (Flexural test)	ASTM D 790	N/mm²	1500
Ball indentation hardness	ISO 2039	N/mm²	80
Shore-hardness	ISO 868	D	75
Thermal Properties			
Melting point (DSC)	ASTM D3418	°C	160
Thermal conductivity	DIN 52612	W/k*m	0.19
Vicat-softening temperature	ISO 306 Verf. B50	°C (K)	135
Thermal coefficient of linear expansion	ASTM D 696	1/K	$126 * 10^{6}$
Electrical Properties	**23 °C**		
Surface resistivity	ASTM D 256	Ω	$> 10^{13}$
Volume resistivity	ASTM D 256	Ω * cm	$> 10^{15}$
Dielectric strength	ASTM D149	kV/mm	67
Flammability			
Gas burner test	UL 94	Class	V-0

Further material compositions or approvals on request!

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