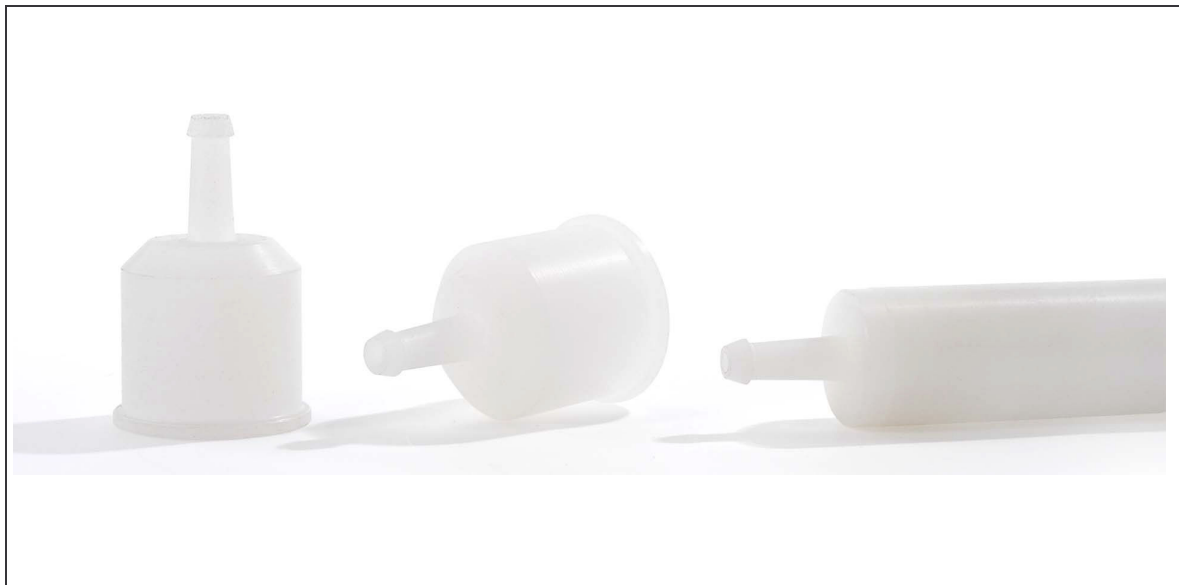


Product information

Wefapress PVDF

PVDF is a non-reinforced, highly crystalline fluoropolymer. This material provides a better dimensional stability as well as better wear properties than PTFE. The characteristics of PVDF are as follows:

- good mechanical, thermal and electrical properties
- outstanding resistance to chemicals



Standard colours:	natural
Special colours:	--
Form of delivery:	sheets, rods (catalogue semi finished products / conveyor systems)
Finished parts:	on request
Fields of application:	<ul style="list-style-type: none">• chemical industry• food industry• valve flaps• hoppers• bearing bushes

Technical Data Sheet

Material designation	PVDF		
Raw material	Polyvinylidenfluoride		
Material colour(s)	natural		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		
Mechanical properties			
Density	g/cm ³	DIN 53479	1.78
Tensile strength	N/mm ²	DIN 53455	55
Shore D hardness, 15s	D scale	DIN 53505	77
Ball indentation hardness, 30s	N/mm ²	DIN ISO 2039 part 1	110
Ultimate tensile strength	N/mm ²	DIN 53455	22
Elongation at break	%	DIN ISO / R 527	20
Modulus of elasticity	N/mm ²	DIN 53457	2000
Notched impact strength (Charpy)	kJ/m ²	DIN 53453	10
Abrasion	%	Sand slurry method	
Coefficient of friction			0.2 - 0.4
Thermal properties			
Dimensional stability under heat	°C	DIN 53461	35 - 52
Vicat softening temperature	°C	DIN 53460	170
Crystallite melting range	°C	DTA	156
Thermal conductivity at 23°C	W/m * K	DIN 52612	0.20
Specific heat at 23°C	kg/kJ * K		1.2 - 1.6
Coefficient of linear expansion at 23°C	K ⁻¹	DIN 53752	1 x 10 ⁻⁶
Application temperature (min.)	°C		-60
Application temperature (constant)	°C		150
Application temperature (max.)	°C		180
Electrical properties			
Volume resistivity	Ω cm	DIN 53482	10 ¹⁵
Surface resistance	Ω	DIN 53482	>10 ¹³
Dielectric strength	kV/mm	DIN 53481	22
Relative permittivity	at 50 Hz	DIN 53485	7.5

Notes for the user:

Data sheet specifications are made to our today's knowledge. This information does not mean that certain properties are agreed upon or assured. Whether or not a material is suitable for a given application is the user's decision. All specifications are subject to change.

Vreden, August 03