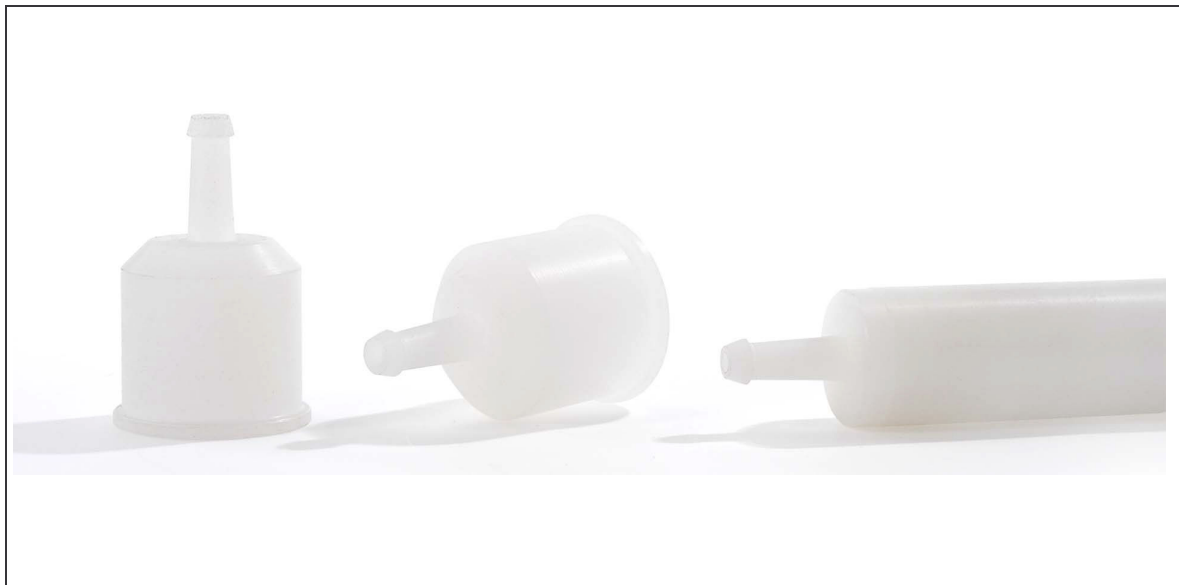


## Product information

### 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"><li>• chemical industry</li><li>• food industry</li><li>• valve flaps</li><li>• hoppers</li><li>• bearing bushes</li></ul>

## Technical Data Sheet

Material designation	PVDF		
Raw material	Polyvinylidenfluoride		
Material colour(s)	natural		
<b>Properties</b>	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		
<b>Mechanical properties</b>			
Density	g/cm <sup>3</sup>	DIN 53479	1.78
Tensile strength	N/mm <sup>2</sup>	DIN 53455	55
Shore D hardness, 15s	D scale	DIN 53505	77
Ball indentation hardness, 30s	N/mm <sup>2</sup>	DIN ISO 2039 part 1	110
Ultimate tensile strength	N/mm <sup>2</sup>	DIN 53455	22
Elongation at break	%	DIN ISO / R 527	20
Modulus of elasticity	N/mm <sup>2</sup>	DIN 53457	2000
Notched impact strength (Charpy)	kJ/m <sup>2</sup>	DIN 53453	10
Abrasion	%	Sand slurry method	
Coefficient of friction			0.2 - 0.4
<b>Thermal properties</b>			
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 <sup>-1</sup>	DIN 53752	1 x 10 <sup>-6</sup>
Application temperature (min.)	°C		-60
Application temperature (constant)	°C		150
Application temperature (max.)	°C		180
<b>Electrical properties</b>			
Volume resistivity	Ω cm	DIN 53482	10 <sup>15</sup>
Surface resistance	Ω	DIN 53482	>10 <sup>13</sup>
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