

# PVDF

## Polyvinylidene difluoride

Properties	Norm	Value	Unit
<b>Mechanical properties</b>			
Hardness shore D	DIN 53 505	72 - 82	Sh. D.
Ball pressure hardness	DIN 53 456	62 - 68	N/mm <sup>2</sup>
Tensile strenght (23°C)	DIN 53 455	38 - 50	N/mm <sup>2</sup>
Elongation at break (23°C)	DIN 53 455	20 - 80	%min
Tensile modulus	DIN 53 457	800 - 1800	N/mm <sup>2</sup>
Coefficient of friction v-steel - dynamic	-	0,45	-
<b>Physical properties</b>			
Water absorption	DIN 53 495	0,03	%
<b>Electrical properties</b>			
Dielectric strenght	DIN 53 481	40 - 80	KV/mm
<b>Thermal properties</b>			
Coefficient of thermal expansions (20-100°C)	-	10	1/K.10-5
Thermal conductivity (23°C)	DIN 53 612	0,17	W/K.m
Maximum Continous operating temperature	-	150	°C
Minimum Continous operating temperature	-	-60	°C

### Product Properties

- Excellent mechanical strength
- Resistance to UV and  $\gamma$  radiation
- High purity
- Excellent chemical resistance
- High abrasion resistance
- Excellent fire resistance
- Low permeability to most gases and liquid
- High temperature capabilities

**Disclaimer:** Information contained in this data sheet is up-to-date and correct as at the date of issue. The given information is only informative and we cannot guarantee the accuracy nor can we take any accountability for the use of this information. The customer is responsible for the quality of products and has to test usage and processing to use. Some values are based on the datasheet of supplier, internal test and research. The values are guideline values that can be used for comparison for material selection.