

Technical datasheet

PVDF (Polyvinylflouride)

Example of application	
> valve stem; pump components	

Advantages	Disadvantages
excellent chemical resistance very low water absorption good UV-resistance	› high thermal expansion

Basic information	Specification
Format	round material: 10 mm up to 125 mm available in 3 m length 140 mm up to 250 mm available in 1 m sheets: 6 mm up to 10 mm available in 2 m x 1 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.78	g/cm ³	ISO 1183
Moisture ingress	0.04	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	46	MPa	DIN EN ISO 527
Elongation at break	29	%	DIN EN ISO 527
E-Module	2.125	MPa	DIN EN ISO 527
Notch toughness	12	kJ/m²	ISO 179
Rochwellhardness	120	MPa	DIN EN ISO 2039

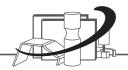
Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.13	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	1.3	K ⁻¹ ⋅ 10 ⁻⁴	DIN 53752
based on a fixed initial length	2.6	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	150	°C	
Max. operating temperature, short-term	n.sp.	°C	
Min. operating temperature, long-term	-30	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	1010	Ω·cm	DIN IEC 60093
Outer surface coefficient	1013	Ω	DIN IEC 60093
Puncture resistance	27	kV/mm	DIN EN 60243

Legend	
n.sp. = not specified	

Should you require binding and exact values, please ask for the appropriate factory certificate. This may incur additional costs. Please note that all specifications are standard values only, which are subject to production-related fluctuations.

All information based on current knowledge and experience. Information provided shall not exempt the contractor or user from conducting own tests. A legally binding warranty as to product features or its suitability for specific purposes may not be derived therefrom. Compliance with any proprietary rights as well as existing laws or regulations is the responsibility of the recipient of our products. No liability assumed for printing and any other errors. Technical data subject to change without notice. Reproduction or duplication of this document or its contents - whole or in part - is only permitted with express approval by company noltewerk. The German version of this data shall prevail. As of 1119.



technical plastics

^{*}Higher specification on request.