Technical datasheet

PTFE (Polytetrafluorethylene) with 25% GF

Example of application
› sliding component; seals; linings

Advantages	Disadvantages
› excellent anti-friction properties › very high temperature resistance › excellent chemical resistance	› bad mechanical properties › not foodstuff resistant

Basic information	Specification
Format	**round material:** Ø 10 mm up to 250 mm available in 2 m length **sheets:** 5 mm up to 50 mm available in 1.2 m x 1.2 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	2.22	g/cm^3	ISO 1183
Moisture ingress	n.sp.	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	16	MPa	DIN EN ISO 527
Elongation at break	170	%	DIN EN ISO 527
E-Module	n.sp.	MPa	DIN EN ISO 527
Notch toughness	n.sp.	kJ/m^2	ISO 179
Rochwellhardness	n.sp.	MPa	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	n.sp.	W/(m·K)	DIN 52612
Linear thermal expansion coefficient based on a fixed initial length	n.sp.	K^{-1} · 10^{-4}	DIN 53752
Max. operating temperature, long-term	260	°C	
Max. operating temperature, short-term	n.sp.	°C	
Min. operating temperature, long-term	-200	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	n.sp.	Ω·cm	DIN IEC 60093
Outer surface coefficient	10^{15}	Ω	DIN IEC 60093
Puncture resistance	13	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.
*Higher specification on request.

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technical plastics

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