



Technical data sheet

Rev. 10/2025

PTFE Virgin

Properties	Value	Unit	DIN Standard
Hardness	≥51	Shore D	DIN ISO 7619-1
Density	2,14-2,18	g/cm ³	ASTM D792
Tensile Strength	≥24	N/mm ²	ISO 527
Elongation at Break	≥250	%	ISO 527
Compressive Strength at 1% Deformation	4-5	N/mm ²	ASTM D695
Deformation under Load at Room Temperature After 24 Hours at 13,7 N/mm ²	≤17	%	ASTM D621
Permanent Deformation Under Load After 24 Hours of Rest at Room Temperature	≤9	%	ASTM D621
Deformation under Load at 260°C after 24 Hours at 41N/mm ²	≤32	%	ASTM D621
Permanent Deformation Under Load After 24 Hours of Rest at Room Temperature	≤19	%	ASTM D621
Impact Strength IZOD	153	J/m	ASTM D256
Dynamic Coefficient of Friction	0,06	/	ASTM D1894 ASTM D3702
Wear Factor K	2,900	/	ASTM D3702
Service Temperature (Min-Max)	-200/+260	°C	/
Thermal Expansion Coefficient (Linear) 25 – 100°C	12-13	10 ⁻⁵ (mm/mm)/°C	Similar to ASTM D696

It has the classic PTFE properties: very low coefficient of friction, outstanding chemical resistance, a non-stick surface, and exceptional dielectric performance across a wide range of frequencies.

Mechanically, this compound exhibits moderate strength, high elongation (~200–250 %), and good compressive resistance, typical of virgin PTFE and suitable for general sealing and bearing uses.

Foodstuf approval:

FDA 177.1550*

EU Regulation 10/2011*

*The user is responsible for performing the necessary tests to confirm that the above-mentioned material is suitable for use in pharmaceutical and medical applications.

All data provided above are based on random samples taken from our ongoing production. The results were determined using standard test specimens in accordance with ISO, DIN, and ASTM methods. These results cannot be directly applied to specific finished components.

Any technical information or advice we provide—whether verbal, written, or based on testing—is given to the best of our knowledge. Nevertheless, this information should be regarded as non-binding guidance and does not release the user from the obligation to verify the suitability of our products for their intended process or application. Possible third-party property rights must also be observed.

Since the use, application, and processing of our products take place beyond our control, they remain solely the responsibility of the user. In any case where liability may arise, it shall be limited to damages not exceeding the value of the product supplied and used.

We do, however, guarantee the flawless quality of our products in accordance with our general terms and conditions of sale and delivery.

