



PTFE Glass-Fiber

85% PTFE
15% Glass-fiber

Properties	Norm	Value	Unit
Mechanical properties			
Hardness shore D	DIN 53 505	54 – 62	Sh. D.
Ball pressure hardness	DIN 53 456	30 +/- 5	N/mm ²
Tensile strength (23°C)	DIN 53 455	17 – 21	N/mm ²
Elongation at break (23°C)	DIN 53 455	250 – 290	%min
Tensile modulus	DIN 53 457	820	N/mm ²
PV – limit 3m/min	--	20	$\frac{N.M}{mm^2.min}$
PV – limit 30m/min	--	23	$\frac{N.M}{mm^2.min}$
PV – limit 300m/min	--	30	$\frac{N.M}{mm^2.min}$
Coëff. of friction – statical	--	0,16	--
Coëff. of friction v-steel – dynamic	ASTM D1894	0,12	--
Diametric shrinkage	--	2,0	%
Wear K.10 ⁻⁸	--	8,3	$\frac{cm^3.min}{kg.m.h}$
Physical properties			
Specific gravity	ASTM D4894	2,210	g/cm ³
Water absorption	ASTM D570	0,0	%
Deformation after 24h at 23°C – 15N/mm ²	ASTM D621	13,50	%
Deformation after 24h at 260°C – 4N/mm ²	ASTM D621	5	%
Compr. strength at 1% deformation (23°C)	DIN 53 454	6,90	N/mm ²
Electrical properties			
Dielectric strength	ASTM D149	19,0	KV/mm
Thermal properties			
Coefficient of thermal expansion (20-150°C)	--	10,5	1/K.10-5
Coefficient of thermal expansion (150-260°C)	--	13,6	1/K.10-5
Thermal conductivity (23°C)	DIN 52 612	0,39	W/K.m
Maximum Continuous operating temperature	--	250	°C
Minimum Continuous operating temperature	--	-200	°C

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 the supplier, internal tests and research. The values are guideline values that can be used for comparison for material selection.