

PTFE Carbon

75% PTFE + 25% Carbon

Properties	Norm	Value	Unit
Mechanical properties			
Hardness shore D	DIN 53 505	62 – 68	Sh. D.
Tensile strenght (23°C)	DIN 53 455	13 - 15	N/mm ²
Elongation at break (23°C)	DIN 53 455	40 - 70	%min
Tensile modulus	DIN 53 457	1150	N/mm ²
Coefficient of friction v-steel - dynamic	-	0,12	-
Physical properties			
Colour	-	grey	-
Water absorption	DIN 53 495	0,015	%
Deformation after 24h at 23°C - 15N/mm ²	ASTM D621	4,00	%
Deformation after 24h at 260°C - 4N/mm ²	ASTM D621	1,60	%
Compr.strenght at 1% deformation (23°C)	DIN 53 454	14,00	N/mm ²
Electrical properties			
Dielectric strenght	ASTM D149	Conductive	KV/mm
Thermal properties			
Coefficient of thermal expansions (20-150°C)	-	9	1/K.10-5
Coefficient of thermal expansions (150-260°C)	-	12	1/K.10-5
Thermal conductivity (23°C)	DIN 53 612	0,60	W/K.m
Maximum Continous operating temperature	-	250	°C
Minimum Continous 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 supplier, internal test and research. The values are guideline values that can be used for comparison for material selection.