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/mm²
Elongation at break (23°C)	DIN 53 455	40 - 70	%min
Tensile modulus	DIN 53 457	1150	N/mm²
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/mm²	ASTM D621	4,00	%
Deformation after 24h at 260°C - 4N/mm²	ASTM D621	1,60	%
Compr.strenght at 1% deformation (23°C)	DIN 53 454	14,00	N/mm²
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

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