



PTFE Bronze, Carbon Fiber, Graphite

65% PTFE
20% Bronze
10% Carbon Fiber
15% Graphite

Properties	Norm	Value	Unit
Mechanical properties			
Hardness shore D	DIN 53 505	63 – 66	Sh. D.
Tensile strength (23°C)	DIN 53 455	14 – 18	N/mm ²
Elongation at break (23°C)	DIN 53 455	120 – 180	%min
Tensile modulus	DIN 53 457	1420	N/mm ²
PV – limit 3m/min	--	35	<u>N.M</u> mm ² .min
PV – limit 30m/min	--	35	<u>N.M</u> mm ² .min
PV – limit 300m/min	--	39	<u>N.M</u> mm ² .min
Coëff. of friction – statical	--	0,15	--
Wear K.10 ⁻⁸	--	5,5	cm ³ .min kg.m.h
Physical properties			
Deformation after 24h at 23°C – 15N/mm ²	ASTM D621	3,00	%
Deformation after 24h at 260°C – 4N/mm ²	ASTM D621	1,60	%
Compr. strength at 1% deformation (23°C)	DIN 53 454	15,00	N/mm ²
Thermal properties			
Coefficient of thermal expansion (20-150°C)	--	7	1/K.10 ⁻⁵
Coefficient of thermal expansion (150-260°C)	--	10	1/K.10 ⁻⁵
Thermal conductivity (23°C)	DIN 52 612	0,72	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.