



PTFE Carbon

90% PTFE
10% Carbon

Properties	Norm	Value	Unit
Mechanical properties			
Hardness shore D	ASTM D2240	>62	Sh. D.
Tensile strength (23°C)	ASTM D4894	>20	N/mm ²
Elongation at break (23°C)	ASTM D4894	>200	%min
Tensile modulus	--	900	N/mm ²
Coëff. of friction – statical	--	0,14 – 0,15	--
Coëff. of friction v-steel – dynamic	--	0,10 – 0,11	--
Volume resistivity	--	10 ⁷	Ωcm
Physical properties			
Specific gravity	ASTM D792	2,140 – 2,170	g/cm ³
Compr. strength at 1% deformation (23°C)	--	>10	N/mm ²
Thermal properties			
Coefficient of thermal expansion (20-150°C)	--	10	1/K.10 ⁻⁵
Coefficient of thermal expansion (150-260°C)	--	12	1/K.10 ⁻⁵
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.

Vanéflon nv/sa
Industrieterrein Zwaarveld 12
9220 Hamme - Belgium

Tel.: +32(0)52 47 63 99
Fax.: +32(0)52 47 68 64
contact@vaneflon.com

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