



## PTFE PPSO2, Carbon Fiber, Graphite

75% PTFE  
10% PPSO2  
10% CF  
5% Graphite

Properties	Norm	Value	Unit
<b>Mechanical properties</b>			
Hardness shore D	DIN 53 505	58 – 62	Sh. D.
Tensile strength (23°C)	DIN 53 455	16 – 21	N/mm <sup>2</sup>
Elongation at break (23°C)	DIN 53 455	140 – 180	%min
Tensile modulus	DIN 53 457	1420	N/mm <sup>2</sup>
Coëff. of friction – statical	--	0,15	--
Wear K.10 <sup>-8</sup>	--	4,8	<u>cm<sup>3</sup>.min</u> kg.m.h
<b>Physical properties</b>			
Specific gravity	ISO 12086	2 – 2,05	g/cm <sup>3</sup>
Deformation after 24h at 23°C – 15N/mm <sup>2</sup>	ASTM D621	3,20	%
Deformation after 24h at 260°C – 4N/mm <sup>2</sup>	ASTM D621	1,60	%
Compr. strength at 1% deformation (23°C)	DIN 53 454	16	N/mm <sup>2</sup>
<b>Thermal properties</b>			
Coefficient of thermal expansion (20-150°C)	--	7	1/K.10 <sup>-5</sup>
Coefficient of thermal expansion (150-260°C)	--	9	1/K.10 <sup>-5</sup>
Thermal conductivity (23°C)	DIN 52 612	0,52	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.

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