

# PTFE Graphite

## 75% PTFE + 25% Graphite

Properties	Norm	Value	Unit
<b>Mechanical properties</b>			
Hardness shore D	DIN 53 505	59 – 65	Sh. D.
Tensile strenght (23°C)	DIN 53 455	16	N/mm <sup>2</sup>
Elongation at break (23°C)	DIN 53 455	100 - 240	%min
Diametric shrinkage	-	1,5 – 2,5	%
<b>Physical properties</b>			
Colour	-	black/grey	-
Specific gravity	ASTM D4894	2,12 – 2,18	g/cm <sup>3</sup>
Water absorption	ASTM D570	0,01	%
Deformation after 24h at 23°C - 15N/mm <sup>2</sup>	ASTM D621	8,10	%
Deformation after 24h at 260°C - 4N/mm <sup>2</sup>	ASTM D621	16	%
Compr.strenght at 1% deformation (23°C)	ASTM D695	7,30	N/mm <sup>2</sup>
<b>Electrical properties</b>			
Dielectric strenght	ASTM D149	1 - 2	KV/mm
<b>Thermal properties</b>			
Maximum Continous operating temperature	-	250	°C
Minimum Continous operating temperature	-	-200	°C
Maximum operating temperature	-	375	°C

### Product properties

- Improved wear resistance
- Decreased friction
- Increased sliding properties against soft metals
- Chemical inertness

**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.