

# PTFE Bronze

## 40% PTFE + 60% Bronze

Properties	Norm	Value	Unit
<b>Mechanical properties</b>			
Hardness shore D	DIN 53 505	63 – 68	Sh. D.
Tensile strenght (23°C)	DIN 53 455	11 - 15	N/mm <sup>2</sup>
Elongation at break (23°C)	DIN 53 455	110 - 140	%min
Tensile modulus	DIN 53 457	-	N/mm <sup>2</sup>
PV-limit 3m/min	-	21	(N.M)/mm <sup>2</sup> .min
PV-limit 30m/min	-	27	(N.M)/mm <sup>2</sup> .min
PV-limit 300m/min	-	28	(N.M)/mm <sup>2</sup> .min
Coefficient of friction - statical	-	0,17	-
Coefficient of friction v-steel - dynamic	ASTM D1894	0,13	-
Wear K.10 <sup>-8</sup>	-	6,1	(cm <sup>3</sup> .min)/ (kg.m.h)
<b>Physical properties</b>			
Colour	-	Brown	-
Specific gravity	ASTM D4894	3,8 – 4,0	g/cm <sup>3</sup>
Water absorption	ASTM D570	0,0	%
Deformation after 24h at 23°C - 15N/mm <sup>2</sup>	ASTM D621	4,20	%
Deformation after 24h at 260°C - 4N/mm <sup>2</sup>	ASTM D621	2,80	%
Compr.strenght at 1% deformation (23°C)	DIN 53 454	13,0	N/mm <sup>2</sup>
<b>Electrical properties</b>			
Dielectric strenght	ASTM D149	Conductive	KV/mm
<b>Thermal properties</b>			
Coefficient of thermal expansions (20-150°C)	-	9,0	1/K.10-5

**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.