PTFE II Hardness 60° Shore D Brown

Composition % weight ± 1:

40% Bronze + 60% virgin PTFE

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Brown		Brown
Density/specific gravity	23°C	DIN 53479	Kg/m³	3150	g/cm³	3,15
Hardness	23°C	ISO 868	Shore D	60±3	Shore D	60±3
Ball indentation hardness	23°C	DIN 53456 H135/30	MPa	≥39	Psi	≥5656
Tensile strength	23°C	ASTM D 4745-79	MPa	≥22	Psi	≥3190
Elongation at break	23°C	ASTM D 4745-79	%	≥216	%	≥216
Compressive strength	23°C	DIN 53455	MPa	≥10	Psi	≥1450
Thermal conductivity	23°C	DIN 52612	$\frac{J \times 10^3}{m \times h \times K}$	4,0	$\frac{J \times 10^3}{m \times h \times K}$	4,0
Coefficient of thermal expansion	25°C-200°C		$K^{-1} \times 10^{-5}$	8,5	$K^{-1} \times 10^{-5}$	8,5
Coefficient of friction	*		μ	0,13	μ	0,13
Minimum service temperature			°C	-200	°F	-328
Maximum service temperature			°C	260	°F	500
Young's modulus		DIN 53457	MPa	1375	Psi	199500
* dynamic coefficient of friction, dry, steel 16MnCr5: v=0,6 m/s; p=0,05 MPa; t=5h						

Chemical Properties

Filled PTFE

Resistant to: almost all chemicals

Not resistant to: halogenides, elemental fluorine, CF3, molten alkali metals

Detailed information concerning chemical resistance see Rhondama Compatibility Chart