

## PTFE II

Mechanical, Physical and Thermal Properties

40 % bronze + 60 % virgin PTFE

properties	condition	standard	unit	unit	
colour			brown		brown
density/specific gravity	23 °C	DIN 53479	kg/m <sup>3</sup>	3110	g/cm <sup>3</sup> 3,11
hardness	23 °C	ISO 868	Shore D	60 ±3	Shore D 60 ±3
ball indentation hardness	23 °C	DIN 53456 H135/30	MPa	33 ±5	psi 4790 ±725
tensile strength	23 °C	ASTM D 4745-79	MPa	≥ 22	psi ≥ 3190
elongation at break	23 °C	ASTM D 4745-79	%	≥ 200	% ≥ 200
compressive strength	23 °C	DIN 53455	MPa	≥ 10	psi ≥ 1450
thermal conductivity		DIN 52612	$\frac{J \cdot 10^3}{m \cdot h \cdot K}$	≥ 4,0	$\frac{J \cdot 10^3}{m \cdot h \cdot K}$ ≥ 4,0
coefficient of thermal expansion	25 °C - 200 °C		K <sup>-1</sup> * 10 <sup>-5</sup>	≥ 8	K <sup>-1</sup> * 10 <sup>-5</sup> ≥ 8
coefficient of friction *	23 °C		μ	0,13	μ 0,13
minimum service temperature			°C	-200	°F -328
maximum service temperature			°C	260	°F 500
young's modulus	23 °C	DIN 53457	MPa	≥ 1375	psi ≥ 199500

\* coefficient of friction dry dynamic Steel 16MnCr5 v=0,6m/s; p=0,05 MPa; t=5h

## CHEMICAL PROPERTIES

Filled PTFE

Resistant to almost all chemicals

Not resistant to halogenides, elemental fluorine, CF<sub>3</sub>, molten alkali metals

Foodstuff applications

Detailed information concerning chemical resistance see Chemical Resistance Guide

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