

PTFE + 40% Bronz

Materiálový list

PTFE + Bronze material can be used at operating temperatures from -200°C to +260°C.

Material is a filled PTFE, consisting of 60% pure PTFE combined with 40% bronze.

Thanks to the bronze additive, the material offers higher compressive strength as well as improved thermal and electrical conductivity. Compared to virgin PTFE, it also has reduced cold flow while maintaining excellent sliding properties. The added bronze also provides increased wear resistance.

Due to these properties, this is the most commonly used PTFE variant in hydraulic applications.



A detailed chemical resistance table is available upon request.

Properties	Conditions	Standard	Metric		Imperial	
			Unit	Value	Unit	Value
Colour				brown		brown
Hardness	23 °C / 3 sec	ISO 868	Shore D	60 ± 3	Shore D	60 ± 3
Hardness	23 °C / 15 sec	ISO 868	Shore D	59 ± 3	Shore D	59 ± 3
Ball indentation hardness	23 °C	DIN 53456	MPa	33 ± 5	psi	4791 ± 725
Tensile strength	23 °C	ASTM D4745	MPa	≥ 22	psi	≥ 3190
Compressive strength	23 °C	DIN 53455	MPa	≥ 10	psi	≥ 1450
Elongation at break	23 °C	ASTM D4745	%	≥ 200	%	≥ 200
Young's modulus		DIN 53457	MPa	≥ 1375	psi	≥ 199500
Specific gravity	23 °C	ISO 1183	kg/m ³	3110	g/cm ³	3,11
Thermal conductivity	23 °C	DIN 52612	J x 10 ³ / m*h*k	≥ 4,0	J x 10 ³ / m*h*k	≥ 4,0
Coefficient of thermal expansion 25 - 200°C			K ⁻¹ x 10 ⁻⁵	≥ 8	K ⁻¹ x 10 ⁻⁵	≥ 8
Coefficient of friction, 23 °C*			μ	≥ 0,13	μ	≥ 0,13
Minimal long-term service temperature			°C	-200	°F	-328
Maximal long-term service temperature			°C	260	°F	500

* coefficient of friction dry dynamic Steel16MnCR5 v=0,6 m/s; p=0,05 MPa; t=5h



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