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PTFE bronze 40% 60 Shore D brown

Filled Polytetrafluorethylene

This PTFE consisting of 40% bronze and 60% PTFE virgin has excellent sliding conditions, wear properties and improved strength. PTFE brown has thermal and electrical conductivity.

Mechanical, physical and thermal properties

Material code: 0803G

Properties	Condition	Standard	Unit	Unit	
Color				brown	
Hardness	23°C	ISO 868/3 sec. ISO 868/15 sec.	Shore D Shore D	60 ± 3 59 ± 3	
Density	23°C	DIN 53 479	g/cm³	3,11	kg/m³ 3110
Ball indentation hardness	23°C	DIN 53 456 H 135/30	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	
Compression strength	23°C	DIN 53 455	MPa	≥10	Psi ≥1450
Thermal conductivity	23°C	DIN 52 612	J x 10³ M x h x K	≥4,0	
Coefficient of therm. Expansion	23°C-200°C		K⁻¹ x 10⁻⁵	≥8	
Coefficient of friction*	23°C		μ	≥0,13	
Minimum service temperature			°C	-200	°F -328
Maximum service temperature			°C	260	°F 500
Young's modulus	23°C	DIN 53 457	MPa	≥1375	Psi ≥199500

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

Resistant to: almost all chemicals

No resistant to: molten alkali metals, halogenides, elemental fluorine