



Rhondama Material Data Sheets for Manufactured Parts

PTFE 40% Bronze Filled

Bronze reinforced modified PTFE. This material shows outstanding chemical properties, high compressive and excellent sliding properties. The wide range of temperature resistance (-200 C to +260 C) and excellent mechanical properties make making this material suitable for many sealing applications. It is not recommended for use in water applications.

Resistant against

Water up to 90°C, HFA Fluids, HFB Fluids, HFC Fluids, HFD Fluids, Mineral Oils, Vegetable Oils, Fuels, Ozone and Air up to 200°C

Applicable for

Guide Rings, Bushes, Composite Seals, Low friction applications, water based applications

Mechanical, Physical & Thermal Properties

Properties	Condition	Standard	Unit	Value	Unit	value
density/specific gravity	23 °C	DIN 53479	kg/m ³	3110	g/cm ³	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
coefficient of thermal expansion	25 °C - 200 °C		K-1 * 10-5	≥ 8	K-1 * 10-5	≥ 8
coefficient of friction *	23 °C		μ	≥ 0,13	μ	≥ 0,13
minimum service temp			°C	-200	°F	-328
maximum service temp			°C	260	°F	500

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

