



Rhondama Material Data Sheets for Manufactured Parts

80% Virgin PTFE 15% Glass Fibre 5% MoS2

Special fillers increase this materials resistance to cold flow and give the properties to be used as a hydraulic seal (with energiser to seal at low pressures). It has similar chemical resistance and the same temperature range as Virgin PTFE which makes this material universal. This material should not be used for dynamic applications in water.

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, High and Low Temp Applications, Low friction applications

Mechanical, Physical & Thermal Properties

properties	condition	Standard	Unit	Value	Unit	value
density/specific gravity	23 °C	DIN 53479	kg/m ³	2210	g/cm ³	2,21
hardness	23 °C	ISO 868	Shore D	60 ±3	Shore D	60 ±3
ball indentation hardness	23 °C	DIN 53456 H135/30	MPa	24 ±5	psi	3480 ±725
tensile strength	23 °C	ASTM D 4745-79	MPa	≥ 17	psi	≥ 2465
elongation at break	23 °C	ASTM D 4745-79	%	≥ 170	%	≥ 170
compressive strength	23 °C	DIN 53455	MPa	≥ 8	psi	≥ 1160
coefficient of thermal expansion	25 °C - 200 °C		K-1 * 10-5	≥ 10,7	K-1 * 10-5	≥ 10,7
coefficient of friction *	23 °C		μ	≥ 0,16	μ	≥ 0,16
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

