



Rhondama Material Data Sheets for Manufactured Parts

HPU Premium

HPU produces a hardness of 95 +/- 2 shore A with very good physical properties. The resistance to the most common hydraulic fluids and oil-water emulsions make HPU a very universal material for seal applications.

Resistant against

Water up to 90°C, HFA Fluids, HFB Fluids, Mineral Oils, Vegetable Oils, Ozone and Air Up to 100°C

Applicable for

Rod and Piston Seals, Wiper Seals, Rotary Seals, Static Seals, Backup Rings and Guide Rings

Mechanical, Physical & Thermal Properties

properties	condition	standard	unit	value	unit	value
colour				blue		blue
hardness	23°C	ISO 868	shore A	96 ± 2	shore A	96 ± 2
hardness	23°C	ISO 868	shore D	50 ± 3	shore D	50 ± 3
modulus 100%	23°C	DIN 53 504	MPa	≥ 12	psi	≥ 1740
modulus 300 %	23°C	DIN 53 504	MPa	≥ 22	psi	≥ 3190
tensile strength	23°C	DIN 53 504	MPa	≥ 45	psi	≥ 6525
elongation at break	23°C	DIN 53 504	%	≥ 450	%	≥ 450
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 80	lbf/inch	≥ 450
spec. gravity	23°C	ISO 1183	kg/m ³	1130	g/cm ³	1,13
abrasion	23°C	DIN 53 516	mm ³	20	mm ³	20
compression set	*	ISO 815	%	≤ 30	%	≤ 30
compression set	**	ISO 815	%	≤ 35	%	≤ 35
minimum service temp			°C	-37	°F	-35
maximum service temp			°C	110	°F	230

* 24h 70°C 25% def. ** 24h 100°C 25% def.

