

MATERIALS DESCRIPTION AND PROPERTIES

UP - ULTRA PERFORMANCE (violet)

- Pressure: 1000 bar
- Temp: -50C to +120C
- Low friction, low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, HFB and HFC hydraulic fluids

SR - SUPER RED (purple)

- Pressure: 1000 bar
- Temp: -50C to +120C
- Low friction, low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, HFB and HFC hydraulic fluids

EGRIN (green)

- Pressure: 400 bar
- Temp: -50C to +110C
- Low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, HFB and HFC hydraulic fluids

ROT 95 (red)

- Pressure: 400 bar
- Temp: -50C to +120C
- Low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, HFB and HFC hydraulic fluids

WIFF 60 (blue)

- Pressure: 400 bar
- Temp: -50C to +120C
- Low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, and HFB hydraulic fluids

MOTUF 73 (dark blue)

- Pressure: 400 bar
- Temp: -50C to +120C
- Low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, and HFB hydraulic fluids

MONYT (grey/black)

- Pressure: 1000 bar
- Temp: -50C to +120C
- Low friction, low compression set, resistant to biologically reducible hydraulic fluids, as well as HFA, HFB and HFC hydraulic fluids

NBR - Nitrile Butadiene Rubber (black)

- Pressure: 160 bar
- Temp: -30C to +100C
- Good mechanical resistance and sealing properties.
- Unsuitable for brake fluids or aromatic compounds.

HNBR - Hydrogenate Butadiene Rubber (black)

- Hardness: 85 \pm 5 Shore A
- Temp: -35C to +150C
- Good mechanical resistance. Suitable for fuels, oils, greases, and fats.

EPDM (black)

- Ethylene Propylene (black)
- Pressure: 160 bar
- Temp: -50C to +130C
- Good resistance to hot water, vapour, alkaline solutions, hydraulic fluids without mineral oil, atmospheric corrosion, ozone, and aging.

NEO - Neoprene (black)

- Hardness: 85 \pm 5 Shore A
- Temperature: -50C to +100C
- High performance urethane resistant to ammonia

VITON - Fluoro Rubber (brown)

- Pressure: 160 bar
- Temp: -20C to +200C
- Resistance to hostile environments such as oil and harsh chemicals. Not compatible with anhydrous ammonia, soda and potassium lyes, ketones, ether, dioxin, certain amines, and organic acids.

POLYSTONE 7000 – UHMWPE (white)

- Temp: -250C to +80C
- Hardness: 61 Rockwell M
- Weatherproof, with excellent impact strength and abrasion resistance. Compatible with corrosive chemicals and food.

SIL - Silicon (white)

- Food grade material
- Temp: -60C to +200C

PTFE - Polytetrafluoroethylene (white)

- Temp: -200C to +260C
- Excellent resistance to most compounds, even at high temperatures and pressures. Self lubricating. Cold flows at low loading

TMCF Carbon Fibre Filled PTFE (dark grey)

- Hardness: 60-65 Shore D
- Temp: -260C to +260C
- Longer wear life and good thermal conductivity allows dynamic applications at high speeds, such as seal rings, piston rings, and compressor rings

25% Glass Filled PTFE (white)

- Hardness: 59-65 Shore D
- Temp: -260C to +260C
- Ideal for high load bearing applications such as bearings and bearing pads, piston rings, valve seats, valve plugs, and gaskets.

Tetron B - Bronze Filled PTFE (dark orange)

- Hardness: 67 Rockwell M
- Temp: -260C to +260C
- Bronze filled for good creep resistance

Tetron C – Carbon Graphite Filled PTFE (dark grey)

- Hardness: 68 Rockwell M
- Temp: -260C to +260C
- Carbon graphite filled for improved creep resistance and thermal conductivity

Nylon 6PLA (black)

- Hardness: 88 Rockwell M
- Temp: +105C
- Good mechanical strength, fatigue resistance, sliding properties, and wear resistance.

Acetal – POM (white)

- Hardness: 84 Rockwell M
- Temp: +115C
- High mechanical strength and very low stick slip. Ideal for food and medical applications.

Ketron PEEK 1000 – Polyetheretherketone (cream)

- Hardness: 105 Rockwell M
- Temp: +250C
- A food grade material that has excellent mechanical properties, temperature resistance, and chemical resistance.

Ketron PEEK HPV and CA30 (dark grey)

- Hardness: 85 (HPV) and 102 (CA30) Rockwell M
- Temp: +250C
- The addition of carbon fibre and PTFE (HPV) provides low friction, long wear, and high thermal conductivity properties. Ideal for bearings.



SEAL SOLUTIONS AUSTRALIA



Custom Seal Profile Chart

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