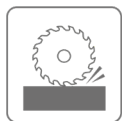


M SEALS PU-G95

Hydrolysis Resistant Polyurethane



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



Wear Resistance



Hydrolysis Resistance

Description

PU-G95 is our standard Polyurethane offering for applications working in reduced temperatures. While the material has Hydrolysis Resistance, its maximum working temperature is reduced in comparison to HPU-R95.

PU-G95 can be used in Water, Sea Water, HFA and HFB fluids up to +40°C, Mineral, Vegetable and Silicone oils. It should not be used in Steam, Solvents, Concentrated Alcohols or Acids and HFD fluids. It is not recommended for use in Water Glycol (HFC) fluids.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Green
Density	ISO 1183-1	g/cm ³	1.10
Hardness @ 23°C	ISO 7619-1	Shore A	95
Hardness @ +100°C	ISO 7619-1	Shore A	93
100% Modulus	DIN 53504	N/mm ²	≥ 10
Tensile Strength	DIN 53504	N/mm ²	≥ 40
Elongation at break	DIN 53504	%	≥ 400
Tear strength	ISO 34-1	kN/m	≥ 100
Compression set (24 Hours @ 70°C, 25%)	ISO 815-1	%	≤ 20
Compression set (24 Hours @ 100°C, 25%)	ISO 815-1	%	≤ 30
Minimum service temperature			-30°C
Maximum service temperature			+105°C

Main Characteristics

- Good hydrolysis resistance up to +40°C
- Good abrasion resistance
- Good fluid resistance
- Good wear resistance

Typical Products

- U-Seals
- Wiper seals
- Static seals
- Piston seals

Typical applications

PU-G95 can be used in the most common hydraulic fluids such as mineral oils and can also be utilised in oil in water emulsions and water power applications up to +40°C. PU-G95 can operate up to 400 bar working pressure as a standalone product and up to 700 bar when seals are incorporated with anti-extrusion / back-up ring. In applications involving water or water-based fluids we would recommend the use of another material with increased hydrolysis resistance, such as our HPU-R95 material.

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