

M SEALS FBPU-BL95

Hydrolysis Resistant Low-Temperature Polyurethane



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



Wear Resistance



Hydrolysis Resistance



FDA Compliant

Description

FBPU-BL95 is a Hydrolysis-Resistant Polyurethane (H-PU) that has been modified for use in Low-Temperature hydraulic operations and can also be used for food contact applications.

FBPU-BL95 can be used in Water up to +90°C, Sea Water, HFA and HFB fluids, Mineral, Vegetable and Silicone oils. It should not be used in Steam, Solvents, Concentrated Alcohols or Acids and HFD fluids. Its use in Water Glycol (HFC) fluids is only limited by temperature, please contact our technical department for further information.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Light Blue
Density	ISO 1183-1	g/cm ³	1.11
Hardness @ 23°C	ISO 7619-1	Shore A	95
Hardness @ +100°C	ISO 7619-1	Shore A	92
100% Modulus	DIN 53504	N/mm ²	≥ 7
Tensile Strength	DIN 53504	N/mm ²	≥ 40
Elongation at break	DIN 53504	%	≥ 450
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			-50°C
Maximum service temperature			+105°C

Main Characteristics

- Excellent hydrolysis resistance
- Good abrasion resistance
- Good low temperature flexibility
- FDA compliant

Typical Products

- U-Seals
- Wiper seals
- Rotary seals
- Piston seals

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