

## Polyurethane - Blue (FBPU)

Swan Seals BPU is composed of prepolymers based on polyoxytetramethylene glycol (PTMEG) and diphenylmethane diisocyanate (MDI) processed with catalysts and chain extenders, producing a hardness of 95 +/-2 Shore A with very good physical properties. The resistance to most food stuffs and water makes it a very universal material for food industry seal applications.

### PHYSICAL PROPERTIES

Specific gravity	DIN 53479	g/cm <sup>3</sup>	1.10
Hardness at 20°C	DIN 53505	Shore A	95 +/-2
100% Modulus	DIN 53504	N/mm <sup>2</sup>	>12
Tensile strength	DIN 53504	N/mm <sup>2</sup>	38
Elongation at break	DIN 53504	%	520
Tear strength	DIN 53515	KN/m	158
Resilience	DIN 53512	%	40
Compression set*	DIN 53517	%	31
Hardness at -5°C	DIN 53505	Shore A	95
Hardness at +80°C	DIN 53505	Shore A	93
Min. Service temperature		°C	-30
Max. Service temperature		°C	105

\*Compression set 25% deflection 22 hours at 70°C

### CHEMICAL RESISTANCE

Water up to 70°	R
Water up to 90°	R
HFA	R
HFB	R
HFC	S
HFD	U
Mineral Oils	R
Vegetable Oils	R
Fuels	S
Ozone	R
Air up to 100°	R
Air up to 150°	U
Air up to 200°	U

### MAIN APPLICATION

Seals (standard and special)
Wipers
Rotary seals
O - Rings, Flange seals and gaskets
Back up rings
Buffers

### KEY TO CHEMICAL RESISTANCE

R = resistance
S = suitable
U = unsuitable

### ANALYSIS AND EVALUATION

The properties relate to fundamental values for polyurethane products. Values mentioned above are corresponding to ASTM or DIN norm and have been tested on standardized plates in the laboratory. All immersion tests are made under laboratory conditions.