



### General

U530-B95-LT is a hydrolysis – resistant (H-PU), casted Polyurethane, based on MDI, Polyether Polyol and certain additives. It is recommended at low temperatures (-50°C), but also in standard hydraulic applications ( $\leq 105^\circ\text{C}$ ) as well as hot water applications ( $\leq 90^\circ\text{C}$ ).

### Physical properties

Density:	DIN ISO 1183-1	g/cm <sup>3</sup>	1,11 ±0,03
Hardness at 23°C:	DIN ISO 7619-1	Shore A	95 ±2
Hardness at +100°C:	DIN ISO 7619-1	Shore A	92 ±2
100% Modulus:	DIN 53504	N/mm <sup>2</sup>	≥ 7
300% Modulus:	DIN 53504	N/mm <sup>2</sup>	≥ 15
Tensile strength:	DIN 53504	N/mm <sup>2</sup>	≥ 40
Elongation at break:	DIN 53504	%	≥ 450
Tear strength:	DIN ISO 34-1	kN/m	≥ 100
Compression set, 24h, 70°C, 25%:	DIN ISO 815-1	%	≤ 20
Compression set, 24h, 100°C, 25%:	DIN ISO 815-1	%	≤ 30

**Temperature range:** -50°C to 105°C

### Chemical resistance

Resistant to: Water up to 90°C, Sea Water, Mineral Oils, Vegetable Oils, Silicone Oils, Ozone, Oxygen (cold), HFA fluids, HFB fluids

Not Resistant to: Steam, conc. Acids and Lyes, conc. Alcohols, Solvents, HFD fluids

### Main application

Static and dynamic applications, mostly used for U-seals, wipers and packings up to 400 bar pressure in hydraulics with extreme low temperature conditions as well as in standard hydraulics.

Due to its excellent hydrolysis resistance U530-B95-LT can be used in the most common hydraulic fluids and oil in water emulsions as well. It is also appropriate for applications with contact to foodstuff.

### Available certificates

Conform to (EC) No 1935/2004 and (EC) No 10/2011

Conform to positive list of FDA 21 CFR 177.1680

### Analysis and Evaluation

Values mentioned above are based on several tests performed during development and production of the material. Tests have been performed on standard test pieces specified within the relevant standard within the laboratory. Tests performed on any other pieces which are not related to the corresponding standard or made out of any (semi)finished part or any other part deviating in production process, dimension or age of the material from above may result in different values. The data represent our present empirical values and do not disengage the processor or user from his obligation to examine the usage of the material for his specific application.

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