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## **Material Data Sheet U530-B95-LT**

### **Polyurethane U530-B95-LT – light blue (Low Temp. Polyurethane)**

#### **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 53479 | g/cm <sup>3</sup> | 1,11 $\pm$ 0,03 |
| Hardness at 23°C:                 | DIN 53505 | Shore A           | 95 $\pm$ 2      |
| Hardness at +100°C:               | DIN 53505 | Shore A           | 92 $\pm$ 2      |
| 100% Modulus:                     | DIN 53504 | N/mm <sup>2</sup> | $\geq 7$        |
| 300% Modulus:                     | DIN 53504 | N/mm <sup>2</sup> | $\geq 15$       |
| Tensile strength:                 | DIN 53504 | N/mm <sup>2</sup> | $\geq 40$       |
| Elongation at break:              | DIN 53504 | %                 | $\geq 450$      |
| Tear strength:                    | DIN 53515 | kN/m              | $\geq 100$      |
| Compression set, 24h, 70°C, 25%:  | DIN 53517 | %                 | $\leq 20$       |
| Compression set, 24h, 100°C, 25%: | DIN 53517 | %                 | $\leq 30$       |

**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 (is in progress)
- Conform to positive list of FDA 21 CFR 177.1680 (is in progress)