

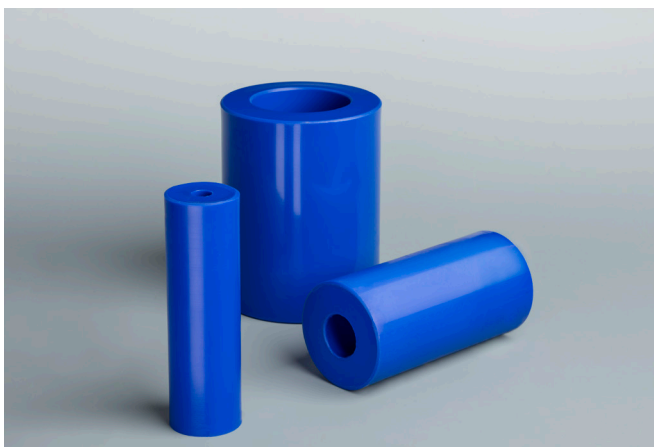
# PU95C101



The blue PU95C101 is a further developed thermoplastic polyurethane (TPU) material from DICTOMATIK, which can be used in a wide variety of hydraulic applications.

With the Xpress Service, turned seals made of PU95C101 can be delivered to the location where they are needed within 24 hours in urgent situations. Thanks to an extremely advanced production technology, these turned seals achieve material characteristics comparable to those of conventionally produced seals. This turning technology is especially cost-effective in the production of prototypes and short production runs, or whenever the planned production quantity does not justify the creation of a series tool.

TPU exhibits good flexibility. For years, TPU has established itself in sealing technology due to its significantly greater mechanical strength and other material properties, such as high resistance to abrasion and wear, along with a high resistance to extrusion.



## APPLICATIONS

Semi-finished products made of PU95C101 can be processed highly effectively for U-rings and wipers. Because the urethane group is highly polar, TPU's areas of application are extremely diverse:

- Wipers (e. g. AE 42, AE 47)
- Piston seals (e. g. N 25, N 36, KNA 28)
- Rod seals (e. g. N 25, N 36, SNI 30)

## DIMENSIONS

Dichtomatik offers all the popular profiles in PU95C101 and dimensions with a diameter of 10 mm to 400 mm from inventory for Xpress production.

## ADVANTAGES AT A GLANCE

- Very good chemical resistance
- Good resistance to hydrolysis
- Low swelling values
- Good machinability
- Use in a wide range of temperatures



## TECHNICAL CHARACTERISTICS

### Quality

The material is based on polycaprolactone, which gives it improved mechanical values compared to prior polyurethane materials. PU95C101 offers better extrusion resistance and has a long lifespan as well, thanks to its excellent abrasion characteristics.

### Material characteristics

PU95C101 stands out for its use in a broad range of temperatures and its very good physical values.

### Media resistance

PU95C101 is suited for use in:

- mineral oils and greases
- hydraulic oils (H, HL, HLP)
- silicone oils and greases
- flame-retardant pressure fluids (HFA, HFB)
- purely aliphatic hydrocarbons
- water up to 80 °C

Characteristics	Value
Shore hardness A	95 ± 3
Tensile strength (DIN 53504, S2, +23 °C)	> 50 MPa
Compression set (24h / +100 °C)	< 35 %
Elongation at break (DIN 53504, S2, +23 °C)	> 450%
Ultimate elongation	> 500%
Strain value 100% (DIN 53504, S2, +23 °C)	> 10 MPa
Range of temperatures	-35 to +110 °C

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