

# OMK-PU 30500

## ALTERNATIVE TO PTFE PISTON SEALS

A two piece piston seal produced in Freudenberg's new hydrolysis resistant, high performance polyurethane combined with an Oring energizer as a potential alternative to piston seals with a PTFE sealing element.

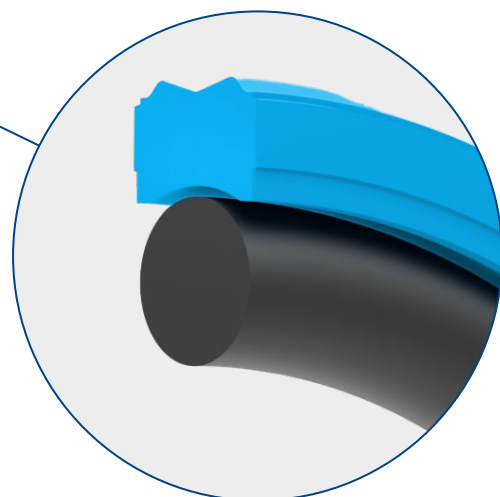
The TPU sealing element can be combined with various O-Ring materials to customize the seals capabilities to suit the application requirements and achieve e.g. maximum sealing capability, extended life or chemical resistance even when used in challenging applications such as those in regions with high temperatures and humidities.



### VALUES FOR THE CUSTOMER

- Cost effective (injection ready molded)
- Inter-changeable with standard PTFE DIN ISO grooves (ISO 7425-1:2021-02)
- Re-calibration after assembly not required
- Robust against damage (tube surface and assembly process)
- High level of physical properties (high resistance to gap extrusion) and high wear resistance
- Free from PFAS restrictions when compared to PTFE solutions
- Very low leakage values
- Low friction due to hydro-dynamically optimized sealing geometries
- Outstanding hydrolysis and glycolysis resistant TPU (for harsh environment)
- A high level of operational parameters:  
Pressure:  $\leq 40$  MPa  
Temperature:  $-30$  °C to  $+100$  °C\*

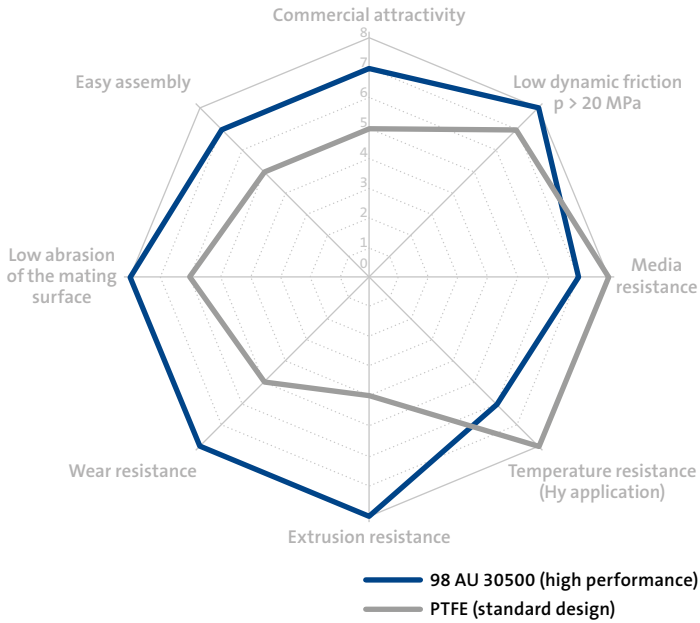
*\*Operating temperature belongs to the entire seal set*



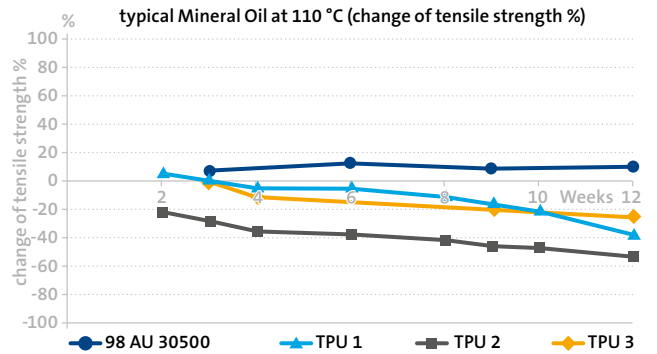
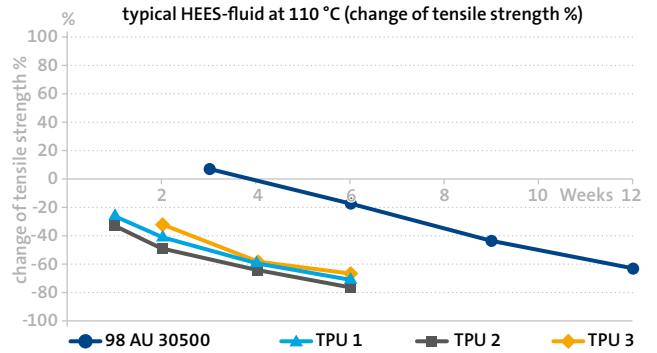
OMK-PU hydrolysis resistant piston seal is ideal for use in hydraulic cylinders instead of PTFE

## FEATURES & BENEFITS

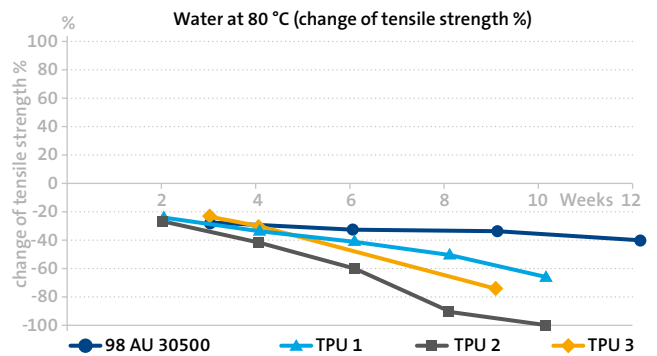
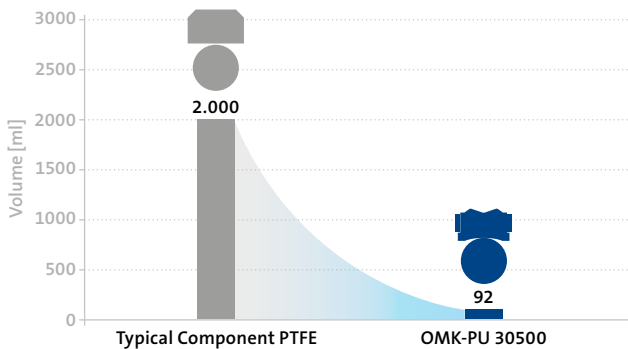
Material Properties 98 AU 30500 (high performance) vs. PTFE (standard design)



Outstanding chemical resistance in various media



Technical features: 20 times better leakage performance with new 98 AU 30500 solution



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