

You said: PU SEAL

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A **PU Seal (Polyurethane Seal)** is a heavy-duty mechanical sealing component made from polyurethane elastomers, primarily used to **prevent fluid leakage and block contaminants** in hydraulic and pneumatic machinery. Due to its high tensile strength and elasticity, it easily outperforms traditional rubber (NBR) in high-pressure and abrasive environments. [\[1\]](#), [\[2\]](#), [\[3\]](#), [\[4\]](#)

Core Benefits of PU Seals

- **Extreme Wear Resistance:** Offers up to 10 times the abrasion resistance of standard nitrile rubber.
- **High Pressure Capacity:** Readily handles extreme pressures up to 40 MPa without losing shape or extruding.
- **Shock Load Insensitivity:** Absorbs rapid pressure peaks and heavy kinetic jolts without failing.
- **Broad Temperature Range:** Operates reliably in standard configurations from **-35°C to +100°C**. [\[1\]](#), [\[2\]](#), [\[3\]](#), [\[4\]](#)