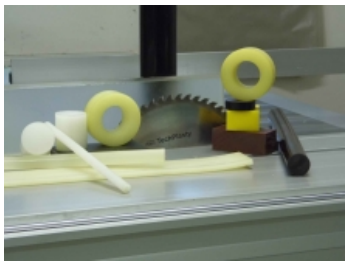
PU - Polyuretán

Other material names PU: PU, Polyuretán, Polyurethane
Material group: Polyurethane



Polyurethanes (also known as PUR or UR) are versatile engineering materials designed to provide properties not available in conventional rubbers, metals and plastics. Typically they have higher oil and solvent resistance, along with greater abrasion and tear resistance. Impact strength, low compression set and superior load bearing capacity are also important engineering characteristics.

Polyurethane sheet, rod and tube is extremely abrasion resistant and can be custom cast in a wide range of sizes, shore hardnesses and colours.

Typical applications:

- linings, scrapers,
- gaskets and machined components
- specialist seals, spacers and machined into components




The material is used in:

Beverage industry
Electrotechnical industry
Automobile industry
Wood processing
Engineering industry
Steel industry
Paper industry
Mining and storage of ores
Construction machines

Features:

- Extremely abrasion resistant
- Wide range of sizes, shore hardnesses and colours
- Varieties: Thermoplastic, thermoset, coatings and foams (flexible, semirigid, rigid and integral skin). Most can be supplied in a polyether or a polyester base formulations.
- Processes: Injection molding, extrusion, RIM, spray and casting
- Temperature: -30°C to +80°C (+100°C short term).
- Higher temperatures can be manufactured upon request.

Material availability: Some sizes are in stock

Material properties table

Specific weight	1.26 g/cm³
Antistatic material	No
Permanent use temperature	-20 ; 80 °C
Transient temperature of use	-20 ; 80 °C
Resistance - oils	resistant
Acid resistance	conditionally resistant

Durability - alcali	conditionally resistant
Food contact	No

Engineering plastics are supplied in the form of bars, plates, strips, tubes and sheets. From the semi-finished products the company TechPlasty has regularly in stock, we also supply blanks.

All standard and special materials are designed to meet your specific requirements. Their mechanical, thermal, and electrical properties and chemical resistance satisfy the most demanding requirements and this allows them to work even in the most difficult conditions. If you need advice when choosing the appropriate material for your application, please contact us. We'll gladly advise you. You can utilize the long-term experience of our technical advisors free-of- charge, who can visit you right in your operation and solve your requirements for engineering plastics directly at the site of their usage.

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