



Polyurethane (PU)

Polyurethane (PU) or Urethane is a thermoset elastomer available in a wide range of shore hardnesses from eraser soft to cricket ball hard. The hardness is a consequence of the molecular structure of Polyurethane, not by the addition of fillers. Polyurethane has excellent resistance to abrasion, oils, various chemicals, solvents, and oxidation: while maintaining high tensile strength and resilience. Polyurethane is cast (poured) into shapes and Allplastics offers a machining service on this unique elastomer which combines the elasticity of rubber with the advantages of plastics.

Key Features

- Superior abrasion and tear resistance
- Excellent bonding and moulding capability
- High load bearing capacity
- Corrosion resistant
- Noise reduction
- Non marking of painted surfaces
- Wide range of hardnesses
- High impact resistance
- Remains flexible at low temperatures
- Fatigue resistance

Applications

- Hydraulic Seals, Wipers, Washers
- Pump Impellers
- Scraper Blades
- Conveyor drive and idle rollers
- Industrial rollers and wheel coatings
- Bumpers and Isolators

Availability

Rods 10mm Dia to 150mm
Sheets 3mm Thick to 50mm
Tubes made to order