



# Polyurethane

Polyurethane is a unique material that offers the elasticity of rubber combined with the toughness and durability of metal. Polyurethane or Urethane has better abrasion and tear resistance than rubber, while offering a higher loading bearing capacity. Urethane offers superior impact resistance, provides excellent abrasion and wear properties, while maintaining elastic memory. Polyurethane can easily replace metal in sleeve bearings, wear plates, sprockets, rollers and various other parts, with benefits such as weight reduction, noise attenuation providing reduced wear.

30

16

20

750

20

<15

40

20

26

700

65

10

<10

60

24

40

600

55

40

<10

70

28

58

500

50

45

<10

80

34

70

500

45

45

<10

90

34

105

480

35

40

<20

95

30

90

450

35

40

<30

### Benefits

### **Typical Properties**

Tensile Strength-MN/m<sup>2</sup>

Elongation at Break - %

Resilience - %

Angle Tear Strength-KN/m

Compression Set at 70°C - %

Taber Abrasion (H22) - mg loss

**Hardness-Shore A** 

- Abrasion resistant
- Oil and solvent resistant
- Long service life
- Tear strength
- Resistance to weathering
- Noise reduction
- Flexibility

# Applications

**Medical:** compression dressings, pressure infuser bags, ergonomic handheld, transdermal patches, orthodontic bands, shoes insoles, tubing

Industrial: drive belts, hoses, rollers, bellows

**Consumer:** sports equipment, keyboard covers, flotation devices, headphone ear cushions, buoyancy compensators, packaging

## **Hardness Scales**



## Shape Available

Sheet, Rod and Tube



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