



Why use cast Urethane?

Cast urethane is a unique thermoset elastomeric material that bridges the gap between highly extensible rubber elastomers and low-elongation rigid plastics. Although light in weight, products made from cast urethane materials exhibit a functional toughness which can withstand industrial abuse that would break down most rubbers, plastics, and even metals.

The first process in the manufacture of this family of high quality urethane sheet is the metering, mixing and de-gassing of the polymer chemicals. The precisely controlled chemistry combined with G forces generated within the casting process ensure that consistent, bubble free, transparent sheet is produced.

Urethane Advantages

- Excellent impact, abrasion, cut and tear resistance
- Superb resilience with exceptional elastomeric memory
- Greater load-bearing capabilities, low compression set
- Wide range of hardness available
- Exceptional oil and solvent resistance
- Excellent ozone, oxidation and radiation resistance
- Greater design flexibility

While cast thermoset urethane elastomers do have limitations, in general their mechanical and physical properties enable engineers to push the design envelopes.

Standard Polyurethane Sheet

Thickness mm	Hardness "Shore A"
0.90	63
1.00	66
1.20	66
1.30	66
1.55	76
1.80	76
2.00	72
2.10	75
3.00	79
5.00	75
7.00	75
9.00	75