

# Cast Urethane

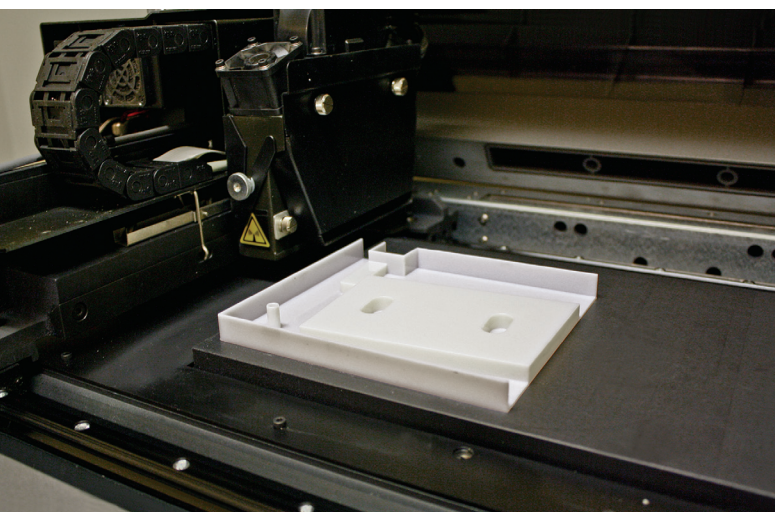
Manufacturing

Cast Urethane



## Cast Urethane

Hi-Tech Seals' cast urethane division is centrally located in Winnipeg, Manitoba. Cast urethane parts are utilized as a replacement for previously used plastic, rubber or metal components. This versatile material can allow for lighter, quieter and longer lasting products. Polyurethane's excellent physical characteristics can save money by increasing wear resistance, providing less downtime and by having less product breakage.



## Mould Making

Hi-Tech Seals' cast urethane division utilizes an in-house 3D printer to create scaled models of components. The process allows us to have full control of our mould development and allows us to reduce expensive tooling charges.



### Types of Urethane

When creating a customized urethane product there are two main types of polyurethane, Polyether and Polyester.

**Polyester:**

- Oil & fuel resistance
- Wear resistance
- Dynamic properties

**Polyether:**

- More flexibility over polyesters
- Better hydrolysis resistance



### Durometer

Hi-Tech Seals can maintain the urethane's toughness and resilience while producing a polyurethane as soft as 30 Shore A to as hard as 87 Shore D.

Shore A	30	35	40	45	50	55	60	65	70	75	80	85	90	95			
Shore D														65	70	75	87

### Custom Colours

Black, red, yellow, orange, green, blue, white and custom corporate colours.



### Logo & Part Numbers

Hi-Tech Seals can tailor components by including a company logo or part number. Moulded identification marks will help create brand awareness and identify proprietary parts.

