

Cast Urethane Products

Customized Solutions

With the addition of our Winnipeg branch, we now offer access to over 20 years of urethane molding experience. When working with Hi-Tech Seals' urethane division you receive customized solutions. Our engineers can determine the correct formulation to improve your existing components' performance. In addition, we can provide assistance with the design of new components.



Properties

- Abrasion resistance
- Flexural Strength
- Tear resistance
- Load-bearing ability
- Better coefficient of friction
- Elastomeric memory

Cost Effectiveness

- Reduce down time
- Lower tooling costs

Temperature Rating

- 54°C to 105°C
- 65°F to 221°F

	<h3>Over Molding</h3> <ul style="list-style-type: none"> • Cost savings • Environmentally friendly • Recycle worn parts • Improved wear over rubber
	<h3>Replace Metal Components</h3> <ul style="list-style-type: none"> • Lighter weight • Ease of Installation • Less noise • Better wear • Cost effective fabrication • Corrosion resistance
	<h3>Replace Rubber or Plastic Components</h3> <ul style="list-style-type: none"> • Resilient at low temp. • Elastomeric memory • Abrasion resistance • Oil resistance • Wide durometer range • Cut & tear resistance • High load bearing • Versatility • Low tooling cost
	<h3>Incorporate Metal Hardware</h3> <ul style="list-style-type: none"> • Improve strength • Improve durability of threads • Enable split parts • Reduce installation labour
	<h3>Custom Shapes</h3> <ul style="list-style-type: none"> • Seals • Gears • Industrial & print rollers • Spacers • Bumpers • Protector products • Complex shapes

Durometers:

The hardness of urethane is measured on Shore A and D Durometer scales.

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

We can maintain the urethanes flexural strength and resilience while producing polyurethane as soft as 30 Shore A to as hard as 87 Shore D.

Custom Colours:

Black, red, yellow, orange, green, blue and white.

Case Studies:

	<h3>Over Molding</h3> <p>Industry: Recycling</p> <p>Part: Paper/plastic/glass separation screen disc</p> <p>Details: Originally the component was composed of homogenous rubber.</p> <p>Benefits: We reused the old components core. Urethane provided better abrasion resistance. Over molding urethane on to the part resulted in an increased life span of the component.</p> <p>Cost Savings: 50%</p>
	<h3>Replace Metal Components</h3> <p>Industry: Refuse Collection Vehicle</p> <p>Part: Wear pad</p> <p>Details: Metal wear pad on rear load "Sweep and Slide" garbage compactors would wear down and become corroded.</p> <p>Benefits: The wear pad was replaced by a 93 durometer urethane part. The new part improved wear and reduced corrosion. The use of urethane increased the time between maintenance cycles.</p>
	<h3>Metal/Urethane Composite</h3> <p>Industry: Recreational Vehicle Mfg</p> <p>Part: Snowmobile (Dogs) Track Drive Sprockets</p> <p>Details: Molded a metal subframe into the urethane part to replace a metal component.</p> <p>Benefits: Reduced weight and wear of the sprockets. The new component is rust free, has silent ride characteristics and absorbs damage from mud, rocks and ice.</p>

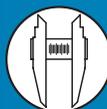
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