



A collage of various mechanical and industrial parts, including gears, bearings, shafts, and couplings, arranged in a hexagonal pattern on a blue background. The parts are shown in different colors and materials, such as yellow, orange, red, blue, black, and silver. The background is a light blue with a subtle hexagonal pattern.

www.westernpolymers.com

Western Polymers Ltd. was founded in 1987 as a manufacturer of high quality polyurethane elastomeric products. In 1994 the company branched into the compression moulding of rubber compounds. Western Polymers is capable of offering a wide variety of moulded materials for all types of service requirements.

Western has developed its own line of proprietary finished products including Tuff-Kote rod couplers for the petroleum industry, Polyglide® Fifth Wheel Plates for the transportation business, and Ice Edge snow removal products.

Western Polymers Ltd. helps transform raw ideas into finished products using advanced elastomers that provide exceptional performance in the most demanding applications.

Polyurethane Moulding

Western Polymers Ltd has supplied custom polyurethane components to the various industries for over 25 years using our **Versa-Cast** polyurethane materials. We work with our customers to develop new and better solutions through part design and our extensive knowledge of polyurethane formulations.

Using our **Versa-Cast** polyurethane materials, you can expect to see improved performance in:

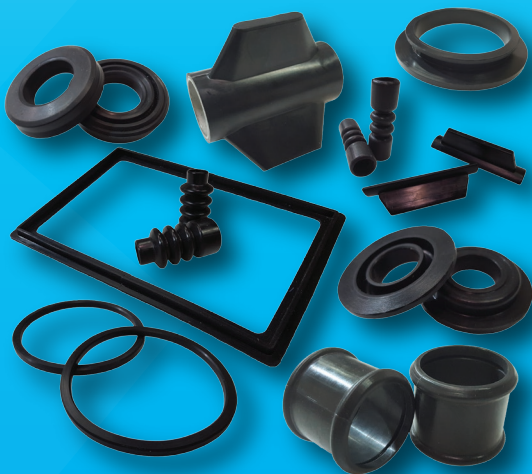
- Abrasion resistance
- Cut / tear strength
- Rebound percentage
- Compressive strength
- Weight reduction

These improvements can offer you:

- Greater product performance
- Reduced down-times
- Improved productivity
- Cost savings

Some of the industries currently using **Versa-Cast** materials:

- Agriculture
- Construction
- Forestry
- Manufacturing
- Marine
- Mining
- Oil & Gas
- Printing
- Transportation



Compression Rubber Moulding

Since 1994 Western Polymers has been professionally moulding rubber elastomer products with consistent dimensional tolerances at economical prices. Compression moulding of rubber elastomers allows for customization of one-off pieces, as well as mass market production of rubber products.

Compression moulding of rubber offers a variety of material options. These include natural rubber, neoprene, nitrile, silicone, fluoroelastomer, and hydrogenated nitriles in many different durometers. Each material has unique mechanical and chemical properties allowing for varying resistance to chemicals and temperatures.

Machine Shop

In addition to our custom urethane and compression rubber moulding business, we also have a multi-faceted machining and fabrication shop. Western Polymers offers complex metal tooling and small to medium production run machining that is shaped by a blend of skill, attention to detail, and personal care. Our customers have the assurance that their product requirements are completed professionally, on time, and on budget.

Our machine shop specializes in the design and machining of precision metal moulds for the manufacture of cast polyurethane and compression rubber moulded products. Our tooling ensures that production runs will provide dimensionally consistent high quality finished goods.

Western Polymers has a full compliment of manual and CNC machines to ensure that the jobs is done accurately and efficiently the first time. We specialize in small to large production runs using many different types of materials such as steel, stainless, aluminium, brass, and plastics.

Some of the machining services we offer are:

Welding build up and Re-Machine
Straightening
Broken Bolt Removal
Thread Repair
Keyway and Keyseat Repair
Shaft Repair
Press Fit Repair
Re-Threading
Re-Machining Warped or Distorted Pieces



We also specialize in:

Hydraulic Cylinder Repair
Hydraulic Manifolds
Air Manifolds
Flange Drilling & Threading
Flywheel Resurfacing

Driveline Repair
Heavy Equipment Part Repair
Resurfacing of Pump Housings
Compressor Part Repairs

Custom Pulleys
General Fabrication
Roller Repairs
Custom Wear Pads/Plates

Wheel and Roller Reconditioning

Western Polymers' **Versa-Cast** polyurethane elastomers are ideal for coating wheels and rollers. Whether it's an existing roller that needs to be reconditioned or a core that is being coated for the first time, Western Polymers has several proven materials for use in any application.



For detailed information and product specifications,
contact us directly or visit our website:

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Polyurethane Products | Compression Rubber Moulding | Tuff-Kote Rod Couplings | Ice Edge Scraper Blades
Polyglide Fifth Wheel Plates | Versa-Cast Polyurethane | CNC and Manual Machining | Production Machining