What is the best material for...
ATM and voting systems
- Transport belts
- Separator rollers and wheels
- Shrouds and seals
- Drive wheels

Printers: impact, thermal and ink jet
- Feed and idler rollers
- Vibration dampening bushings
- Impact absorbing grommets
- ThermalThane™ platen rollers

Transportation
- Door and compartment seals and stops
- Automotive boots and seals
- Galley equipment seals and gaskets
- Fuel cap gaskets

Conveyor/packaging equipment
- Grippers/bubbles
- Vacuum/suction cups
- High temp rollers for sealing
- Static dissipating friction pads

Medical devices
- MicroThane™ membranes
- Silicone gaskets
- Switch/button covers
- Various seals

Industrial equipment
- Concrete pump pistons and rams
- Compartment seals
- Heavy duty bushings
- Hose nozzles

Mining and agriculture
- Wastewater treatment components
- Components for livestock processing
- High impact materials

Construction and building
- HVAC components
- Plumbing seals and components
- Window seals and gaskets
- Electrical insulators

Let us help you find the answer.
Like having the right tool for the job, our polymer solutions can get your job done right!

What is the best material for...

We’ve been answering this question for customers like you since 1962. When you require elastomeric materials that do more and meet more demanding applications, TSE has the solution.

New possibilities.

The TSE Technology Team is leading the industry with innovative materials-oriented solutions. We’ve introduced entirely new polymers, and we’ve modified existing polymers for expanded and improved physical properties.

How fast?

Usually this is the second question our customers ask, and we are ready for it when it comes. Once the rubber/elastomer options are established, you will want to see it in your application as fast as possible.

The TSE RPD (Rapid Product Development) Team, composed of in-house tool makers, chemists, compounders, and coordinators, is dedicated exclusively to your project development.

1 Engineering and 3-D modeling
2 Micro-ductometer & gages
3 Utilizing the co-efficient of friction testing equipment
4 The main Rubber Lab at TSE Industries
5 The HPLC and the Mass Spectrometer
6 Analyzing a sample with the FTIR
We can make it easy for you.
Simply call TSE with details about your application or need. We can work from basic descriptions, blueprints/drawings, sketches, CAD files or from your samples.

How many do you need?
With the development work done, now it's time for production. For 1, 2, 10 or 1,000,000 pieces, our production capability will meet your needs. See our resource list for details.

Typical physical properties:
- High or low friction/traction
- Longevity
- Chemical resistance
- Duro/hardness
- Ozone and UV resistance
- FDA, NSF and dairy compatible
- Tear strength
- Abrasion resistance
- Resilience
- Compression set resistance
- Wet traction
- Tensile strength
- Elongation
- High or low operating temperature
- Rubber to metal or plastic bonding

Polymer options (the short list)
- Natural rubber
- Millable polyurethane
- Cast polyurethane
- Silicone
- Viton® and Aflas®
- Neoprene®
- Ethylene propylene – EPDM
- Styrene butadiene – SBR
- Hypalon
- Nitrile
- Butyl
All available as solid or foam
Masters of elastomers!

**The TSE Rubber Products Division can:**

- Develop and thoroughly test a compound formulation for your specific needs.
- Prototype your product, fast.
- Manufacture the tooling to mold, cast or extrude your product.
- Mix small and large quantities of compound.
- Manufacture metal and plastic insert components for your product.
- Mold, cast or extrude your product.
- Machine or grind your product to high-precision tolerances.
- Assemble your product in sub-assemblies.
- Package and deliver your product on time.
- Provide to you SPC data.

**The TSE Technology Team**

We are the best in the industry. Work with us and you will experience the advantages of dealing with this talented group. The vast laboratory resources available to our team of experts provides an added benefit to our customers.

11 Cryogenic deflasher
12 Video measuring system with 4th axis
13 Optical Comparator
14 High precision CNC grinding
15 Automated assembly of rollers
16 Insert preparation for rubber to metal bonding
The TSE Customer Service Team...

- Responsive
- Knowledgeable
- Dedicated
- Serious about service!