

**Extruded and Cut Short Lip Seals**

No. TSD 5427B1-USA

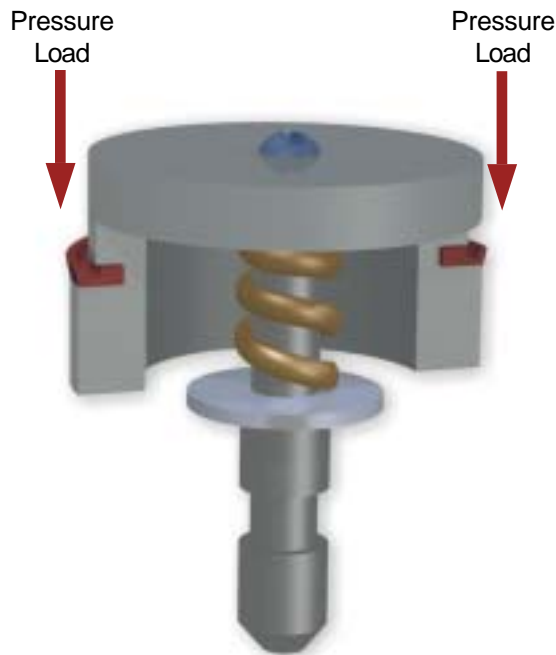
TechSeal's New Extruded and Cut Short Lip Seal Offers Higher Performance at a Lower Cost.

The Short Lip Seal is an extruded and cut sealing solution designed primarily for reciprocating applications. This seal, which can be produced in a variety of standard polymers, exhibits very low frictional force. Its unique geometry enables the sealing force to be proportional to the applied system pressure. Short Lip Seals are manufactured using a precision cutting process that eliminates the parting lines and flash extensions common to molded lip seals.

**Typical Applications:** Short Lip Seals are ideal for use in applications where pressure is being exerted in one direction. These seals can be formulated to resist oil, grease, and/or other media being sealed, and can also be used as an exclusion device in environments where dust or dirt is present. In systems characterized by low friction, large gaps, inconsistent alignment and/or wide variances in tolerance due to thermal expansion, the Short Lip Seal is an excellent solution.



*Parker TechSeal is now offering a non-molded lip seal. TechSeal's new extruded and cut lip seal offers higher performance at a lower cost.*



*As pressure is introduced in the system, the seal expands, increasing the sealing force.*

**The TechSeal Solution:** Short Lip Seals are manufactured in ranges from 2" - 8" (51mm-200mm) ID, using fluorocarbon, polyacrylate, ethylene acrylic and other polymers. These seals are processed from an extruded tube with no secondary operations and tolerances are closely controlled through the use of precision machining equipment. The machining process allows for exceptional design flexibility in both size and profile, and enables the Short Lip Seal to serve as a quickly designed retrofit or custom solution. As each application is unique, product verification and testing should take place in all applications.

**Key Features, Advantages, Benefits:**

- Static or Dynamic Applications
- Low Frictional Force Over a Wide Range of Pressure
- 0-400 psi Continuous or Intermittent Pressure
- Larger than Typical Clearance Gap
- Low Tooling Costs
- Low Prototype Cost
- Short Lead Times
- 2" - 8" (51 mm - 200 mm) Inside Diameters
- Most Major Polymers
- Durometer from 80 to 90 Shore A
- Application Engineering Assistance
- Finite Element Analysis (FEA)
- Parts Fabricated With No Flash or Parting Lines
- ISO 9001 and QS Compliant

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Parker Hannifin Corporation  
TechSeal Division  
3025 West Croft Circle  
Spartanburg, SC 29302  
Phone: (864) 573-7332  
Fax: (864) 583-4299

**"Innovative Sealing Solutions"**

ISO 9001/QS-9000  
Certified

**Parker** Seals

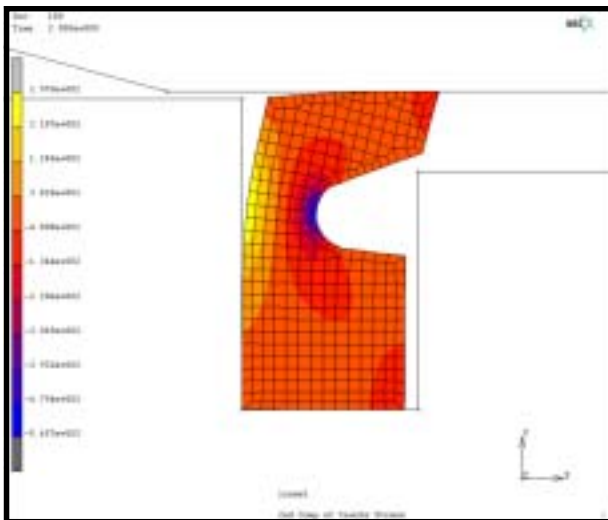
www.techseal.com

# TechSeal Division Short Lip Seals

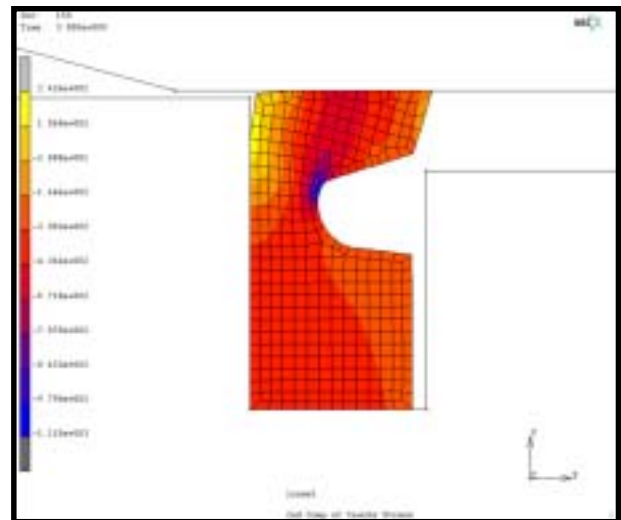


Extruded and cut Short Lip Seals not only offer low drag, but offer consistent drag over a wide range of pressures and temperatures even with variation due to the stackup of tolerances in mating components.

Application engineering is available for assistance in the design of an optimum sealing solution for both existing and concept applications. TechSeal's application engineers utilize Finite Element Analysis (FEA) to simulate the seals behavior in specific applications and conditions.



*Finite Element Analysis (FEA) of a Short Lip Seal Compressed at 0 psi*



*Finite Element Analysis (FEA) of a Short Lip Seal Compressed at 300 psi*

