



**Kelseal Rubber Mouldings Group
Pty Ltd**

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**Australian manufacturer and supplier to Australian industries
for over 50 years including all types of moulding:**

- All Rubbers
- Silicone
- Viton
- Nitrile
- Neoprene
- EPDM
- Rubber to Metal Bonding
- O rings
- Rubber & Plastic Washer Seal Specialists
- Custom Rubber Mouldings
- Slitting



KELSEAL Rubber

Australian Rubber Moulding Manufacturer



Overview

100% Australian owned, Kelseal Rubber Pty Ltd was established in 1973 to provide custom rubber mouldings, washers and seals with fine tolerances, previously unobtainable.

Kelseal Rubber Pty Ltd has modern unique, state of the art, specialised equipment to produce custom mouldings including processes such as, rubber to steel bonding, washers, gaskets, belts and seals, where tolerances are extremely fine.

Components can be produced in any rubber or associated compound, such as Natural Rubber, Neoprene, EPDM, Silicone, Nitrile, Viton etc, to exact specifications.

Further information can be found online at www.kelsealrubber.com.au

Our customers are involved in many industrial and commercial enterprises including mining, medical, transport (road, rail, shipping and air), plumbing and construction industries.

At Kelseal Rubber we offer full technical support, short lead times and top quality products at competitive prices. We regularly provide better products at lower prices than can be currently produced in Australia or imported; in fact, we export worldwide.

Our company delivers excellent quality of the highest standard in manufacturing that is always innovative and economical.

Rubber Moulding

Kelseal Rubber produces seals, bushings, bellows, boots, diaphragms, gaskets, washers, rubber to metal bonded parts, fluid power seals, rubber valves, glands, protective caps and many other custom moulded rubber configurations.

Depending on the complexity of the part to be produced there are several different techniques that Kelseal Rubber can employ to produce parts. By far, the most common of these are compression or transfer moulding.

Compression Moulding

Compression moulding is a manufacturing technique during which material is formed into shape via heavy compression force and elevated temperature. It is a highly efficient and cost effective technique.

Transfer Moulding

Transfer moulding is a step up from compression moulding. In this technique, material is stored in a reservoir called a pot and is injected into the mould cavity. This will produce a higher precision part with flash being of less concern.

However, since this does feature an "injection" portion, transfer moulding generates more waste, and sometimes has a higher mould cost than compression moulding. Transfer moulding is typically the technique Kelseal Rubber uses when we produce rubber to metal bonded parts.



Custom Capabilities

- Engineered shapes, manufactured to print or sample.
- Specialising in close-tolerance configurations.
- Prototype Moulding.
- Micro-precision parts.
- Ability to mould extra large parts up to 700mm.

Extrusion

Extrusion is the simplest of the techniques employed by Kelseal Rubber. Essentially, rubber is forced through a die at elevated temperatures to produce lengths of various shapes. Different dies can be used to produce more complex shapes such as hollow tubing, wiper designs and U-cups etc.

Each of the above techniques offer their own advantages and disadvantages. Learn more about the moulding techniques available at Kelseal Rubber by visiting our website.

Materials

Kelseal Rubber has over 200+ different established rubber compounds that can be used to produce custom parts. If one of these fails to meet your application requirements, we will work with you to develop compounds to meet any service environment. Some of the highlights of our compound services are:

- Complete rubber material selection (refer to website for full details).
- FDA compliant compounds for various food applications.
- Extensive collection of AS1646 drinking water applications.
- Compound development to meet your specific application.

Custom Seals

In its most basic form, a seal is a ring captured in a groove and is designed to control fluid leakage in all different applications. From this basic function you can derive a multitude of applications from the simple such as a tap seal to seals for rods and pistons, wipers to prevent ingress of foreign matter, or protection devices such as buffer seals.

As well as conventional moulding methods we also use the world's finest slitting machines, used extensively in Europe and America, to produce washers and gaskets to exact specifications from extruded tubing. This allows us to provide a very economical product where tolerances of dimensions are within .05mm.

