addix

Experts in elastomeric processing



Experts in elastomeric components



Custom-designed solutions

With almost 70-year experience in elastomeric components, Addix designs and manufactures an extensive range of moulded, overmoulded and extruded components. The company also offers high quality flexible keyboards and keypads.

Addix's expertise enables the company to offer a large range of solutions from mould design to the formulation of compounds which meet the most severe customer's requirements.

From prototypes to large volumes

Addix provides parts weighing from a just a few milligrams to several kilos.

Elastomer components for high technology applications

- Defense and civil avionics via connector manufacturers.
- Subcontractors of avionics equipment manufacturers, subsea applications, oil research, industry.
- Scientific research with materials able to withstand extreme temperatures (-110°C to +350°C).

AEROMIL

AERONAUTICS

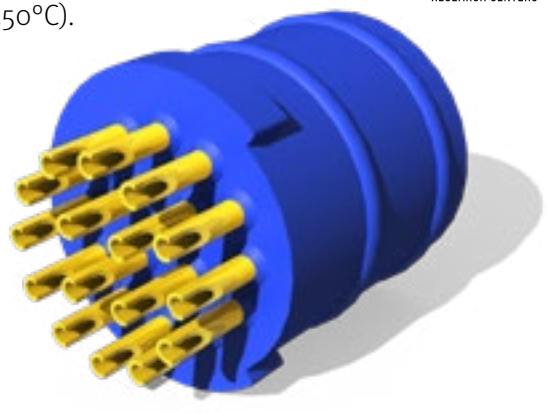
RAILWAY

INDUSTRY

NAVAL

OFFSHORE

RESEARCH CENTERS



Integrated in-house laboratory

One of the key strengths of Addix is their integrated in-house laboratory where most of their compounds are created. These compounds are all tested according to rigorous internal procedures, industry standards or customer specifications.

The range of elastomers on offer is extensive

- Silicone VMQ, fluorinated silicone, FVMQ
- Vitax™ (FKM - FPM), FFKM (For challenging applications such as Aeronauticsvionics, or Offshore...) Oil & Gas)
- EPDM - Nitrile NBR - HNBR - SBR
- BUTYL - CSM - Natural Rubber NR
- Neoprene, polychloroprene CR
- Approved compounds according to aeronauticsavionics, railway, defense, industrial standards and other standards norms including EN 45545-2 (R22 HL3), I2F1, UL94V0), etc
- FDA, WRAS, KTW (industry) compounds
- Electrically conductive compounds (CEEMC), (Silvershield™)
- Heat conductive compounds (Aeronautics Avionics, defencse, offshore, etcoil & gas)
- Fire-resistant compounds
- Compounds able to withstand high or low temperatures and aggressive environments including fluids, very low or very high temperatures.
- Low outgassing compounds (space, defence...)

Complex shapes

Parts with complex shapes and custom designed parts manufactured with special compounds.

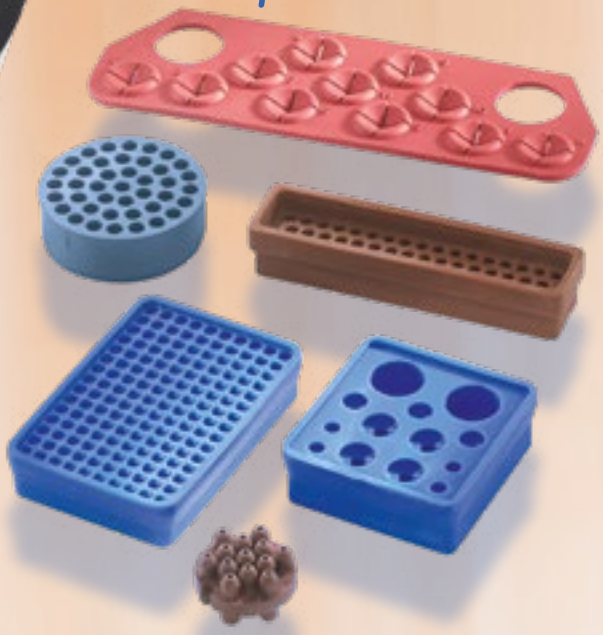


Moulded plates

Manufactured with any type of elastomers and for any type of applications.
Dimensions of the plates: 100 x 100 mm, 300 x 300 mm, 500 x 500 mm and 1000 x 1000 mm. The plates are suitable for water jet cutting, laser cutting or die-cutting.



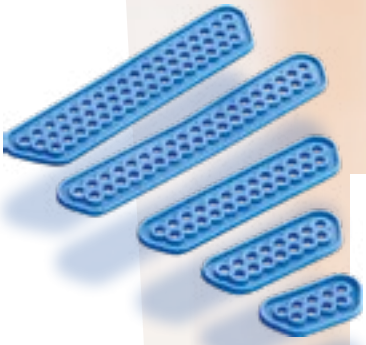
Moulded parts



Addix manufactures any type of moulded parts including interfacial seals, grommets, suction pads, flat gaskets, o-rings and sleeves. There are three principal processes:

- Compression moulding
- Transfer moulding
- Injection moulding

Based on this expertise, Addix is able to offer a large variety of moulded parts.



Shapes for connectors

A large range of components for any type of connectors micro-D, nano-D, circular connectors grommets, interfacial seals, o-rings, flat gaskets, protective caps, insulators with inserts, connector overmoulding, custom designed complex shapes.





Seals

Manufacture of moulded seals including housing seals, gaskets and o-rings. Extruded or continuous (joined) seals can be offered.

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EXPERTS IN
ELASTOMERIC PROCESSING



Vibration absorbers

Used to absorb vibrations and shocks in avionics, military, submarine and space applications.





Elastomeric coating

This is the application of an electrically conductive coating covering to the surface of a component (rubber, plastic or metal). Compared with a classic varnish, this process gives greater flexibility to the film, preventing cracks. The coating ensures electrical continuity. This technology can be used to protect electronic components from electrostatic discharges (ESD) and can also act as an EMI-RFI shield.

Overmoulded parts



Addix is a specialist in the design and manufacture of overmoulded parts which can either be bonded or not. With long experience and proprietary **bonding processes** the company can manufacture parts based on two or three compounds:

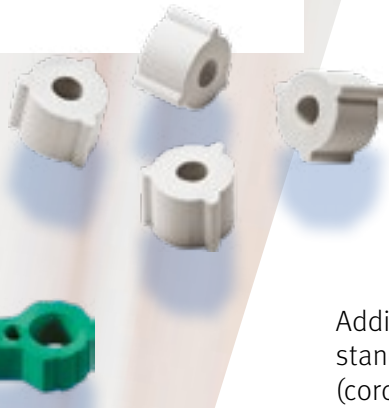
- Rubber to rubber
- Rubber to metal (brass, stainless steel, linconel, titanium), or ceramics
- Rubber to PTFE, PFA, DAP, etc
- Rubber to textiles (e.g. glass fibre, or aramids such as Kevlar®)

Parts can be cut from moulded plates, plates overmoulded over a substrate or from extruded profiles.

- Cut parts from plates: grommets, o-rings or washers and special shapes
- Cut parts from profiles including tubes, cords for washers or sleeves and various shapes on request.



Cut parts





Extruded parts

Addix is a specialist in extruding standard or custom-designed shapes (cords, tubes, stop parts). Hot and cold joined extruded seals can be manufactured with all the compounds available.

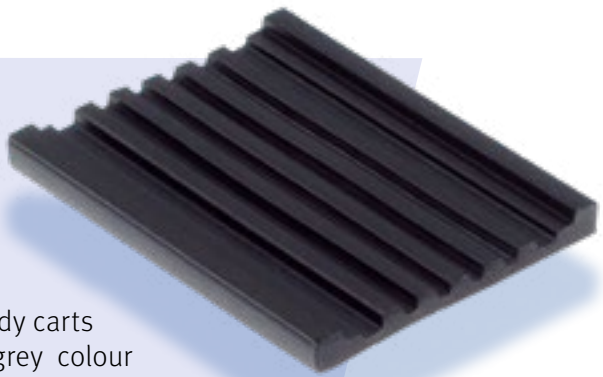


Membranes and Keyboards



Addix is specialised not only in components and elastomeric parts but also offers flexible keyboards including keypads or membranes. Keyboards made with silicone or other materials are available in prototypes, small, medium and large volumes.

A few unusual applications



In addition to high tech parts, Addix also manufactures shapes for some unusual applications.

- Extruded cords for automatic of apricot and peach tree shakers: all the cords are joined end to end.
- Extruded light grey cords for wheel rims used on the candy carts at Disneyland® Paris. They are puncture-proof. The light grey colour was chosen to distinguish Disneyland Paris from Disneyland® USA where the candy carts have black wheels.
- Rubber tips for clarinets.





A worldwide group

ADDIX joined the Axon' Group in 1994. Axon' Cable is a French company located in the Champagne region but with a worldwide presence. The company specialises in the design and manufacture of custom-designed interconnects including wires and cables, cable assemblies, harnesses, miniature connectors and mini-systems.

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