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POLYMAX
Leaders in rubber technology



One stop rubber shop

Polymax Ltd is part of an international group that has been at the forefront of manufacturing and distributing rubber products since 1970. We are focused on providing an excellent buying experience for our customers through our high quality service and vast product portfolio. We are one of the largest distributors of standard rubber products in the UK with more than 20,000 products in stock and ready for next day despatch.

Experts in rubber technology

We have a wealth of expertise from which to draw upon in order to help our customers choose the right product. We can advise not only on compound selection but also composition. We have our own dedicated plants in Europe and Asia to produce products to specific customer requirements. Our capability is not only limited to production; we also offer physical, chemical and mechanical testing of products to various ISO and ASTM specifications.

Global knowledge, local insight

Polymax employs multilingual staff who are able to work confidently and efficiently with leading suppliers and customers across the globe. Our head office is based in the UK and we have additional representation in the Netherlands, Poland, Sweden and India.



Anti-vibration mounts

Vast range in stock

We design and manufacture a wide range of anti-vibration products. They are used in all spheres of technology to isolate vibration and to protect equipment from the effects of shock. Over the last three decades Polymax anti-vibration mounts have earned a tried and tested reputation in the field of vibration control. Our product range includes over 1500 sizes of standard 'bobbin mounts', captive mounts, conical mounts, sandwich mounts and compactor mounts. Applications include isolation of electric motors, vibratory conveyors, pumps, blowers, compressors, electronic devices and workshop equipment.



The secret is in the compound

Our mounts are manufactured from our own high specification rubber compounds to offer excellent mechanical properties and extended service life. In addition to natural rubber, which continues to offer the best dynamic properties, we can supply mounts in Nitrile (NBR), Chloroprene (CR), FKM/Viton®, Silicone (VMQ) and Polyurethane (AU/PU).



Viton® and Kalrez® are registered trade marks of Du Pont E. I. du Pont de Nemours and Company.
Aflas® is a registered trademark of the Asahi Glass Co.



Versatility

With access to our own manufacturing facilities, we have the ability to offer new products with surprisingly economical tooling charges and short lead times.

Stainless steel

Mounts can be made in A2 (SS304) or A4 (SS316) stainless steel with a rapid turnaround.

Sealing products

O-rings

Polymax stocks over 7000 different combinations of o-rings. We can also produce almost any o-ring to order. Whether you require a cross section of less than 1mm or up to 40mm; an inside diameter of less than 1mm or in excess of 10 metres, Polymax can deliver.

We can supply o-rings in materials capable of withstanding most chemicals and aggressive media, of which some are capable of withstanding temperatures as low as -60°C and others that can be used at 325°C.

Any compound, any size

We can undertake bespoke production runs quickly and cost-effectively with a turnaround of as little as two weeks.



High performance elastomers

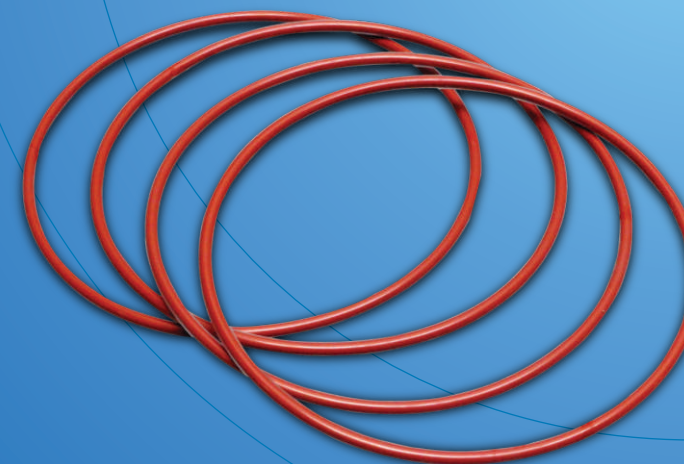
In addition to the conventional NBR, EPDM, silicone and FKM compounds Polymax can supply o-rings in high performance elastomers including:

The entire Viton® family – AL, B, F, G, GLT, GF, ETP

HNBR, XNBR, PU, CR, PTFE

FFKM compounds such as Ekraz® and Kalrez®

Encapsulated o-rings (PFA/FEP) with either silicone, EPDM or Viton® cores



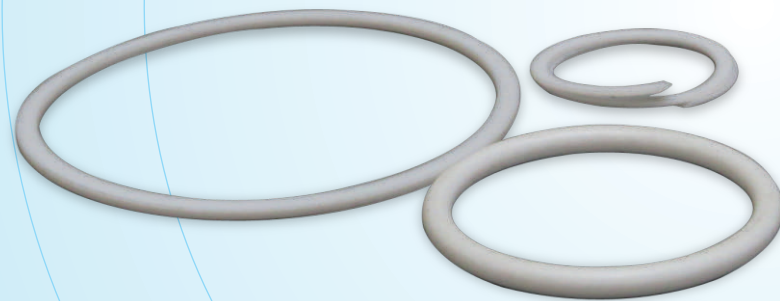
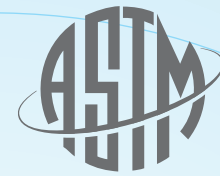
Approvals

We offer a range of approvals for industrial applications, such as:

Chemical processing/oil and gas industry:
EN549 (DVGW), NORSOK M-710 (AED)

Pharmaceutical and food industries:
FDA, USP Class VI, metal detectable O-rings

Drinking water applications:
WRAS, KTW, EN681-1, ACS, NSF, UL778



Back up rings

For high pressure applications, Polymax can supply contoured back up rings in NBR 90 ShA and in solid, spiral or split PTFE. PEEK and Glass/Moly materials are also available.



Quad rings

Also known as X-rings, these provide more sealing capacity and are more suitable for dynamic applications. Available in NBR and FKM as standard. Custom sizes can be produced with short lead times.

Bonded seals

Bonded seals have a rectangular metal section with a trapezoidal rubber section bonded to the metal. We can supply these in metric and imperial sizes to suit pipe connections and couplings as recommended in ISO 1179 (former Cee-Top recommendation). NBR, FKM, stainless steel, mild steel, self-centring and non self-centring.



Rotary shaft seals

Oil seals provide an economical means of sealing rotating shafts to prevent ingress of dust and to prevent the escape of greases and solvents. Polymax supplies these in rubber and metal covered profiles.

Sealing kits

Polymax offers imperial and metric o-ring kits in NBR, EPDM, FKM, HNBR, PTFE and silicone. We also stock cord splicing kits and circlip kits. We also supply shaft repair kits, copper washer kits as well as service kits for off-road equipment and fork lift trucks etc (e.g. JCB).



O-ring cords and other extrusions

We supply extruded rubber products using microwaves, salt baths and the steam autoclave process.

Polymax stocks solid rubber cords in NR, NBR, EPDM, FKM, Hypalon, Butyl, Neoprene and silicone as well as sponge cords in EPDM, neoprene and silicone. FKM sponge and solid X-ring cords are also available.

We also stock standard 'U' section seals for edge protection and various door seals in EPDM and silicone.

Coloured silicone sleeves (0.5mm wall thickness) in 10 different colours are also available.

Commercial 'D' fenders for marine or industrial applications are also available from stock.

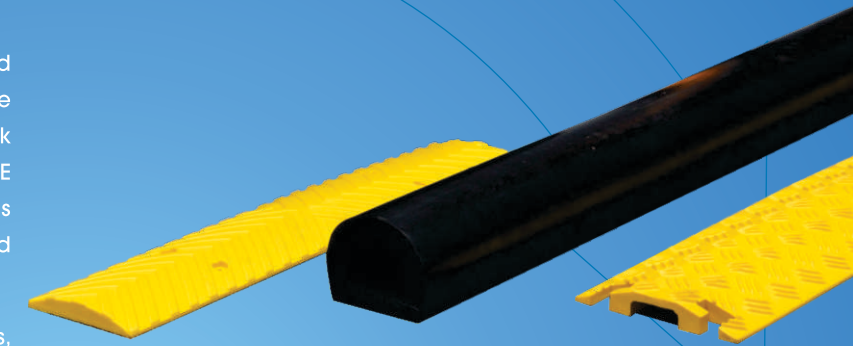
Additionally we can develop extrusions using special elastomers e.g. silicone, TPE, PVC etc on request. FDA approved compounds are also available.



Rubber buffers and site safety products

Polymax stocks a range of competitively priced buffers and site safety products for use in a wide range of applications. The range includes standard dock bumpers as well as those with high-visibility UHDPE front plates. We also stock front and back metal plates for these parts to increase their strength and functionality.

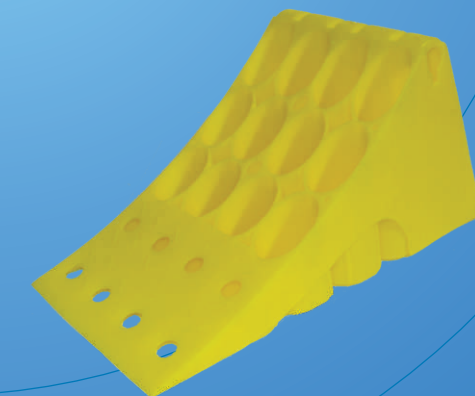
Other key products in this range are our speed ramps, corner protectors and wall guards. They can be used in all manner of domestic or industrial applications such as in garages, car parks or warehouses.



We also supply rubber bridges, multi-channel high visibility protectors and heavy duty hose ramps. Our MPC cable covers are ideal for running cables in areas where there is heavy footfall or vehicular traffic such as building sites and sport or concert venues.



Polymax stocks TÜV approved wheel chocks for cars, caravans and commercial vehicles with optional storage holders. Aircraft wheel chocks are also available.



Rubber matting

Polymax supplies a wide range of rubber matting in both tile and roll form for use across many industry sectors.

Safety flooring

The ELECTRO range of electrical matting is ideal for use as switchboard matting because it complies with BS921, ASTM D178 and VDE0303 standards.

EASI, ORBIK and PLAY mats are used extensively in play areas. They are designed to protect against falls and have been independently tested for critical fall height measurements.

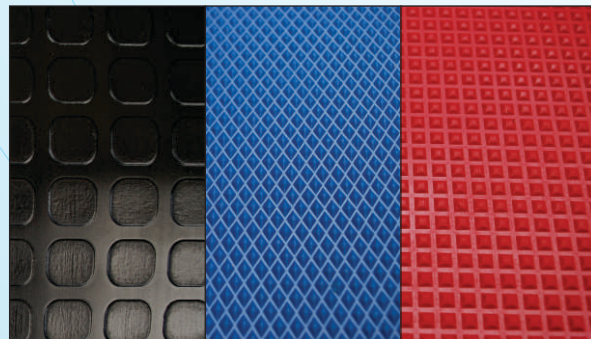
We also offer high visibility yellow VIDA matting to demarcate walkways on construction sites.



Anti-slip rubber matting

Polymax stocks a wide range of rubber matting in many colours and designs to suit most applications. We have supplied matting for use on ships, in campervan conversions, venues, and even on film sets.

TETRA matting is available in extra wide 2.2m rolls, which are ideal for covering large areas such as garages.



Leisure & gym matting

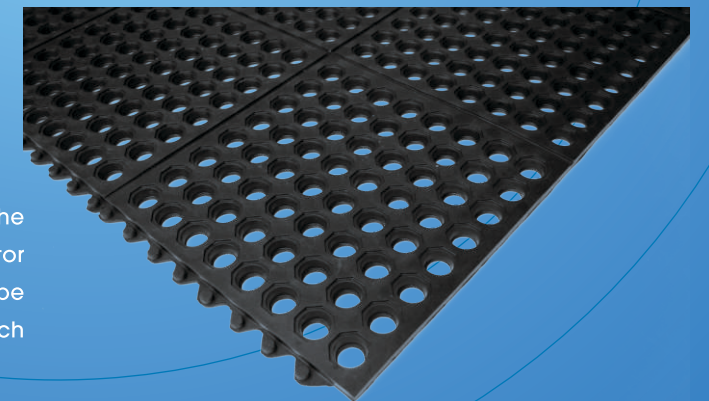
MATRIX and DECK-PRO are designed for use in areas such as spas, shower rooms and swimming pools.

GALAXY and POWER mats are a tried and tested solution for gyms, having been supplied to some of the biggest names in the industry.



Warehouses and garage

VIGOR and GALAXY PRO are extremely hardwearing products. They are suitable for domestic or commercial garages and industrial warehouses. They offer good insulation and therefore help to reduce heating bills. They also help to improve working conditions in dusty environments. Some of the tiles in the range can withstand forklift traffic. We also offer special ESD tiles for areas such as workshops or factories where electronics are in use.



Catering

FIRMA and COMBI mats are extensively used in the catering and restaurant industry to alleviate operator fatigue and improve safety. They are designed to be used in areas where slip resistance is required such as bars, kitchens and preparation areas.

Equine and agricultural mats

MAXMATS provide a warmer, healthier and more comfortable environment for horses or cattle. They help to reduce bedding bills and speed up the 'mucking-out' process. We also stock horsebox ramp matting and matting for stable walls.



Rubber sheeting

Solid

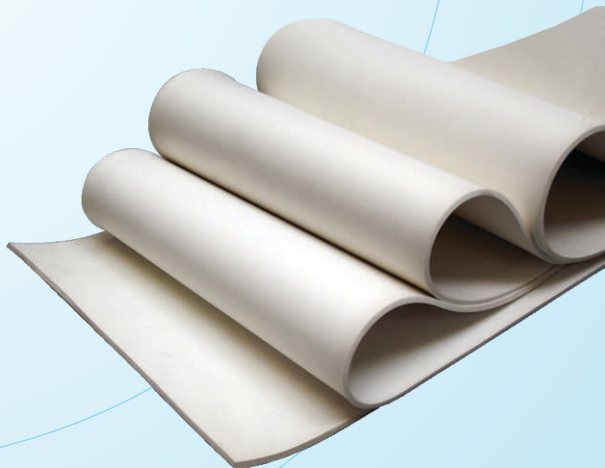
Polymax stocks and supplies over 50 grades of solid rubber sheeting including commercial SBR, neoprene, NBR and EPDM.

In addition, we stock sheets manufactured to British Standards BS5400/EN1337 and BS2751/2752. We also stock WRAS approved EPDM which is suitable for contact with drinking water. We can also supply other polymers such as silicone, Viton®, Butyl, Hypalon and PVC.



Sponge

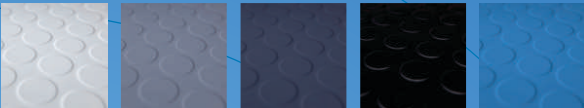
For applications requiring extremely flexible material with good recovery capabilities we can offer closed or open cell sponge rubbers in neoprene, PVC, nitrile, EVA and polyethylene derivatives. We can also offer medium density high impact foam for use in police riot gear and motorcycle safety clothing.



Rubber flooring

We offer a high quality collection of flooring rolls and tiles that can dramatically transform almost any interior.

The CIRCA range is used in airports and train stations worldwide. There are many shades available to suit most colour schemes or company branding.



Adhesives and primers

We hold a selection of different adhesives in stock to compliment our range of flooring. Choose from acrylic, epoxy or contact to suit your application.

Polymax offers a range of RTV silicones and primers for unrivalled performance across a range of applications, e.g. electronic, aerospace, automotive or textile industries

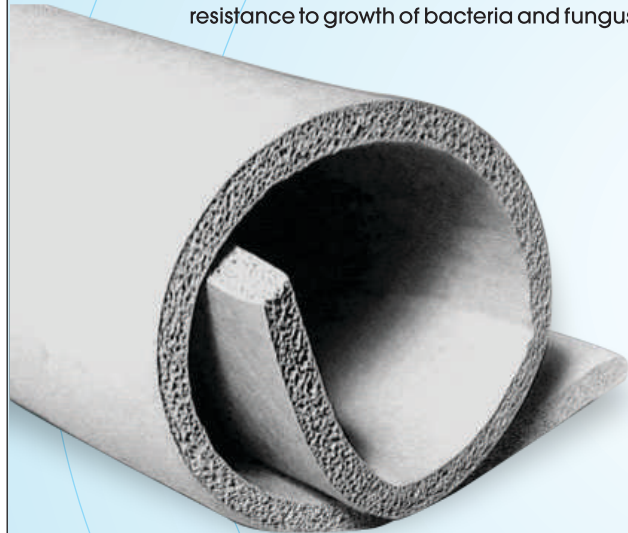
Accessories

Stocked items include: Flooring care kits, adhesive spreaders, sealants and skeleton guns.



Silicone products

Silicone rubber offers many advantages over other elastomers and most grades boast broad temperature resistance (-60°C to $+230^{\circ}\text{C}$). Silicone is UV and ozone resistant. It offers excellent electrical insulation properties and is widely used in the pharmaceutical industry because of its resistance to growth of bacteria and fungus.



Sponge

Polymax silicone sponge is capable of being used between -60°C to $+200^{\circ}\text{C}$. It has a fine closed cell structure which keeps moisture absorption to a minimum. The standard density of our silicone sponge is 250 kgm^{-3} , but we can produce it in softer or harder grades ranging from 200 kgm^{-3} to 500 kgm^{-3} . Flame retardant and WRAS approved versions are also available.

Solid

We stock general purpose solid white, translucent, red oxide, blue and black 0.3mm to 20mm thick sheets. FDA, BfR and WRAS compliant grades are also available.

Polymax can also supply:

Metal detectable sheets compliant with FDA specifications

Anti-microbial sheets independently tested against strains such as MRSA, E-coli and salmonella

High tear and elongation sheets for thermoforming applications

Low smoke and toxicity sheet in accordance with BS6853 Category 1a requirements of LUL

UL94V0 flame retardant sheet

Ultra thin silicone membranes (0.076mm to 1mm)

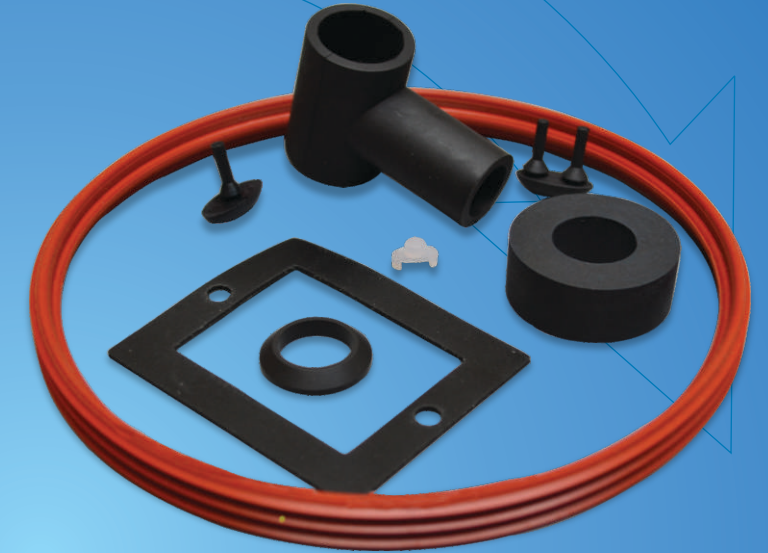
'Glass clear' silicone sheet



Custom moulding and conversion

Fabrication, cutting and self-adhesive options

Polymax offers a full fabrication service. We can convert any of our sheeting to meet your requirements. Self adhesive backing can also be applied to most sheeting products.



We offer a complete moulding and extrusion service for your bespoke requirements in most polymers (includes rubbers, plastics and thermoplastic elastomers). Our team can assist right from material selection and product design through to prototyping and commercial product development.

Our manufacturing plants have the latest vertical machining centres and workshop tools, thus tooling for custom moulded or extruded products can be produced competitively and quickly.