

# SBR

life sciences

## Life Supporting Connections

Precision medical grade elastomeric mouldings, O-rings, seals, gaskets and custom components.

### Product Portfolio



O-rings



Gaskets



Washers



Diaphragms



Extrusion



Custom Components

## Our Healthcare Solutions

Southbourne Rubber is a proud Original Equipment Manufacturer (OEM) and elastomeric products supplier to global and British life science applications.

The formation of SBR-LS is a result of the progressive approach Southbourne Rubber has taken since the business was formed in 1995. Manufacturing with quality, production agility and overall excellence has always been the common goal.

With an extensive understanding of rubber and silicone compound material options, there is an ongoing and parallel drive to innovate new products and services. We support and meet the demands of critical markets and applications in the UK and globally.

## Quality at our Core

SBR-LS is committed to meeting our partners' expectations of a formal Quality Management System:

- ISO9001:2015 & AS9100 Rev D
- Part testing/part qualification
- First Article Inspection Report (FAIR)
- PPAP
- MSA
- FEA analysis

## Custom Solutions

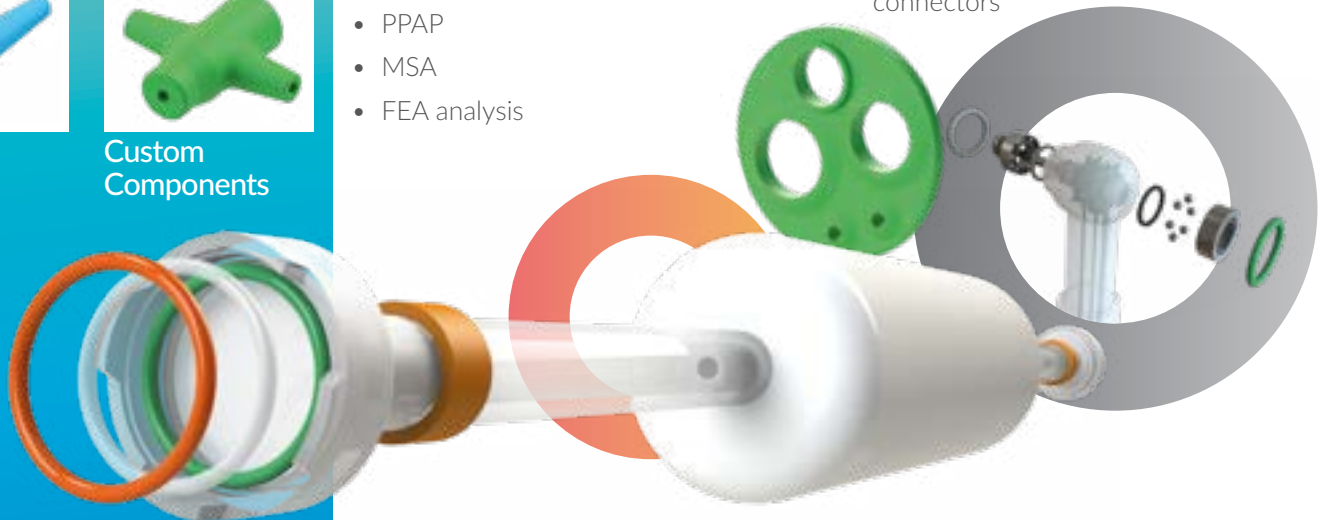
Our knowledge of elastomers' suitability for custom components is a key competence at SBR-LS. Custom component design benefits include:

- Static and slow dynamic applications
- Flexibility - easily designed into many applications
- Medical and life science materials
- Approvals and standards compliance
- Material traceability

## Healthcare Applications

SBR-LS components are used across the medical and life science industries in a range of systems and devices including:

- Negative Pressure Wound Therapy
- Robotic surgery
- Cleaning & autoclave
- Drug delivery
- Fluid transfer
- Valves, pumps, cylinders and connectors



## Processes & Services

- Compression & Injection Moulding
- Extrusion
- Cryogenic Deflashing
- Mould to Metal & Fabric
- Digital Cutting
- Cleanroom Manufacturing
- Cleanroom Assembly

## Key Product Benefits

- Performance excellence
- Cost-effective, versatile solutions
- Flexible capability for design into many applications
- Medical and life science materials
- Compliant with approvals and standards

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A MEMBER OF  
THE WEST GROUP  
OF COMPANIES

# STANDARD TOLERANCE GUIDE SHEET

Provided for general guidance only, contact us at Southbourne Rubber Ltd for any specific requirements.

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## Rubber Moulding

Linear Dimensions (BS ISO 3302-1)

Nominal Dimensions		Class M1		Class M2		Class M3		Class M4
Above	Up to and including	F±	C±	F±	C±	F±	C±	F & C±
0	4.0	0.08	0.10	0.10	0.15	0.25	0.40	0.50
4.0	6.3	0.10	0.12	0.15	0.20	0.30	0.50	0.70
6.3	10.0	0.10	0.15	0.20	0.20	0.40	0.60	0.80
10.0	16.0	0.15	0.20	0.20	0.25	0.50	0.80	1.00
16.0	25.0	0.20	0.20	0.25	0.35	0.60	1.00	1.30
25.0	40.0	0.20	0.25	0.35	0.40	0.80	1.30	1.60
40.0	63.0	0.25	0.35	0.40	0.50	1.00	1.60	2.00
63.0	100.0	0.35	0.40	0.50	0.70	1.30	2.00	2.50
100.0	160.0	0.40	0.50	0.70	0.80	0.8%	1.3%	1.5%
160.0	∞	0.3%	0.4%	0.5%	0.7%			

F | Fixed dimensions; dimensions created by features on the same part of the tool.

C | Closure dimensions; dimensions that are created across two mating parts of a tool and therefore more prone to variation.

All values in millimetres unless otherwise stated.

Hardness tolerance variation from nominal

Shore A | ± 5°

IRHD | ± 5°

## Extrusion

Cross-sectional dimensions (BS ISO 3302-1, E2)

Range	0 - 1.5	1.5 - 2.5	2.5 - 4.0	4.0 - 6.3	6.3 - 10	10 - 16	16 - 25	25 - 40	40 - 63	63 - 100
Tolerance ±	0.25	0.35	0.40	0.50	0.70	0.80	1.00	1.30	1.60	2.00

Range | Above - up to and including. All values in millimetres unless otherwise stated.

## Machined Rubbers & Plastics

Linear Dimensions (DIN ISO 2768-1 m)

Range	0 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	400 - 900mm
Tolerance ±	± 0.10mm	± 0.20mm	± 0.30mm	± 0.50mm	± 0.80mm

Hardness tolerance variation from nominal

Shore A | ± 5°

IRHD | ± 5°

## Cutting & Sheet Material

Linear Dimensions

	Punched parts		Hand cut parts including hand cut strip		Strip cut parts (width ± 0.50mm)	
Range	0 - 200mm	> 200mm	0mm - 1000mm	> 1000mm	0mm - 1000mm	> 1000mm
Tolerance ±	± 0.20mm	± 0.50mm	± 1mm	± 0.5%	± 1.00mm	± 0.5%

Thickness

0mm - 50mm | ± 0.25mm

Hardness tolerance variation from nominal

Shore A | ± 5°

IRHD | ± 5°