



4.

Foam and Sponge





Foam & Sponge For Industry

Closed Cell Sponge

Latex Foam

Open Cell Sponge

Vitafoam

Foam Sheeting

Starprene

Material	Polymer Type	Cell Structure	Firmness	Temp Range	Sheet Size	Code
Starprene Sponge Sheet	Neoprene	Closed	Medium	Maximum Intermittent 100oC Continuous 70o Minimum Flexible at -40o	2000 x 1000 x 3mm	SFT030
					2000 x 1000 x 6mm	SFT060
					2000 x 1000 x 9mm	SFT090
					2000 x 1000 x 12mm	SFT120
					2000 x 1000 x 20mm	SFT190
					2000 x 1000 x 25mm	SFT250
Features	A medium, waterproof, Neoprene sponge with excellent resistance to detergents, oils, ozone and high temperature.					

Starthene

Material	Polymer Type	Cell Structure	Firmness	Temp Range	Sheet Size	Code
Starthene Sponge Sheet	EPDM	Closed	Soft	Maximum Intermittent 60oC Continuous 45o Minimum Intermittent -50oC Continuous -40oC-	2000 x 1000 x 3mm	SFU030
					2000 x 1000 x 6mm	SFU060
					2000 x 1000 x 9mm	SFU090
					2000 x 1000 x 12mm	SFU120
					2000 x 1000 x 20mm	SFU190
					2000 x 1000 x 25mm	SFU250
Features	A soft, waterproof, synthetic sponge with excellent ozone and high temperature resistance. Starthene also available as a self-adhesive spongestrip in a variety of sizes					

Skellerup provides a selection of Starthene and Starprene to suit most needs in the industrial workplace.

Most sizes available ex-stock, otherwise on indent order only.

Sponge Seals

SPONGE SEALS

The following sponge seals are coated one side with sticky back and available in black or white



SPONGE SEAL	6mm x 6mm	4m roll
SPONGE SEAL	9mm x 3mm	4m roll
SPONGE SEAL	9mm x 3mm	10m roll
SPONGE SEAL	9mm x 6mm	4m roll
SPONGE SEAL	9mm x 6mm	10m roll
SPONGE SEAL	9mm x 9mm	4m roll
SPONGE SEAL	9mm x 9mm	10m roll
SPONGE SEAL	12mm x 3mm	4m roll
SPONGE SEAL	12mm x 3mm	10m roll
SPONGE SEAL	12mm x 6mm	4m roll
SPONGE SEAL	12mm x 6mm	10m roll
SPONGE SEAL	12mm x 9mm	4m roll
SPONGE SEAL	12mm x 9mm	10m roll
SPONGE SEAL	12mm x 12mm	4m roll
SPONGE SEAL	12mm x 12mm	10m roll
SPONGE SEAL	15mm x 3mm	4m roll
SPONGE SEAL	15mm x 6mm	4m roll
SPONGE SEAL	15mm x 9mm	4m roll
SPONGE SEAL	15mm x 12mm	4m roll
SPONGE SEAL	19mm x 3mm	4m roll
SPONGE SEAL	19mm x 3mm	10m roll
SPONGE SEAL	19mm x 6mm	4m roll
SPONGE SEAL	19mm x 6mm	10m roll
SPONGE SEAL	19mm x 9mm	4m roll
SPONGE SEAL	19mm x 9mm	10m roll
SPONGE SEAL	19mm x 12mm	4m roll
SPONGE SEAL	19mm x 24mm	4m roll
SPONGE SEAL	19mm x 19mm	5m roll
SPONGE SEAL	25mm x 3mm	4m roll
SPONGE SEAL	25mm x 3mm	10m roll
SPONGE SEAL	25mm x 6mm	4m roll
SPONGE SEAL	25mm x 9mm	4m roll
SPONGE SEAL	25mm x 9mm	10m roll
SPONGE SEAL	25mm x 12mm	4m roll
SPONGE SEAL	25mm x 12mm	10m roll
SPONGE SEAL	38mm x 6mm	4m roll
SPONGE SEAL	38mm x 6mm	10m roll
SPONGE SEAL	38mm x 12mm	4m roll
SPONGE SEAL	40mm x 12mm	4m roll
SPONGE SEAL	40mm x 12mm	10m roll
SPONGE SEAL	50mm x 6mm	10m roll
SPONGE SEAL	50mm x 3mm	10m roll
SPONGE SEAL	100mm x 24mm	5m roll

Standard Sponge Sections

COMPOUND - E.P.D.M. STANDARD COIL LENGTH: 20 METRES. MAX OPERATING TEMPERATURE 120°C

S1 PAS001 4.8x3.2mm	S2 PAS002 9.5x6.4mm	S3 PAS003 9.5x9.5mm	S4 PAS004 9.5x12.7mm	S5 PAS005 12.7x19.1mm	S6 PAS006 12.7x9.5mm	S7 PAS007 25x16mm
S8 PAS008 24x12mm	S9 PAS009 19x19mm	S10 PAS010 4.8x15.9mm	S11 PAS011 12x12mm	S12 PAS012 22x12mm	S13 PAS013 18x10mm	S14 PAS014 16x9.5mm
S15 PAS015 12x12mm	S16 PAS016 10x10mm	S17 PAS017 18x7mm	S18 PAS018 Ø9mm	S19 PAS019 Ø12mm	S21 PAS014 Ø16mm	S22 PAS022 Ø19mm
S23 PAS023 10x12mm	S24 PAS024 17x14mm	S25 PAS025 15x14.5mm	S26 PAS026 38.1x12.7mm	S27 PAS027 12.7x12.2	S28 PAS028 7.9x4.8mm	
S29 PAS029 12.7x3.2mm	S30 PAS030 25.4x6.4mm	S31 PAS031 25.4x12.7mm	S32 PAS032 63.5x12.7mm	S33 PAS033 6.4x3.2mm	S34 PAS034 9.5x14.3x6.4mm	S124 PAS124 19x14mm

Rectangular Hatch Seal Sections

S164 PAS164 40x30mm	S32 PAS032 63.5x12.7mm	S102 PAS102 40x20mm	S200 PAS200 35x70mm
----------------------------------	-------------------------------------	----------------------------------	----------------------------------

Ultralon Polyolefin Foams

Material Information

Ultralon is a closed cell chemically cross-linked foam that is manufactured from polyethylene (PE) or ethylene-vinyl-acetate copolymers (EVA).

Highly cross linked foams have better tensile properties etc compared with low or cross-linked foams, of the same density.

The fine cell structure is produced by the release of a non-toxic gas to form the individual cells. The gas is nitrogen which is a common element in the air. The compound used to release the nitrogen is ADC (azodicarbonamide) which is commonly used in the baking industry to ensure that bread rises properly.

The pigments utilised in Ultralon are of the standard required for products that come into contact with food manufacturing equipment. The manufacture of Ultralon does not involve the use of any fluorocarbon products or derivatives.

The manufacture of Ultralon does not involve the use of any irradiation techniques to produce cross-linking in the foam.

Ultralon contains no UV stabilisers. The foam has a good UV stability and hence its use in the spa and surf products. Some deterioration in the colour due to UV exposure is typical in these conditions.

Ultralon offers a very low water absorption which sees the foam utilised in the marine industry.

In the thermo-forming or thermo-moulding operations care should be taken to account for the small material shrinkage that may occur when operating outside the normal temperature tolerance.

Ultralon offers excellent resistance to most oils and other chemical substances.

Ultralon is able to be fabricated by the use of several heat lamination methods and many commercial adhesives.

Ultralon Polyethylene: PE

Density Range: 30kg/m³ to 120kg/m³
 2lb/ft³ to 8lb/ft³

PE is Ultralon's best performing foam in terms of chemical resistance, thermal and electrical properties and exposure to heat, weather and water. Ultralon's PE has the highest shock absorbency capacity of the two polyolefin foams.

Ultralon's PE, although slower to recover will withstand a greater number of deflection cycles than an EVA foam.

Ultralon's PE offers comparatively easier handling in the warehouse and as larger products than EVA foam because of the increased rigidity. This is important in the handling of products, such as Spa covers, by a single person.

Ultralon Polyethylene: EVA

Density Range: 30kg/m³ to 350kg/m³
 2lb/ft³ to 23lb/ft³

Ultralon's EVA has excellent performance in terms of chemical resistance etc but are secondary to those of PE.

Ultralon's EVA combines excellent shock absorbency with a prompt memory (recovery) from any deflection due to impact. The recovery of EVA is superior to that of PE

Ultralon's EVA has a lower elasticity modulus compared to that of PE. This gives the foam a high drape or expressed in other terms, a softer feeling than a PE of the same density

Buoyancy

Buoyancy foam is an EVA derivative and has many of the EVA properties. The specialist purpose of buoyancy grade is its even greater drape over PE or EVA. This improves the "water-ability" of a product such as a life jacket.

Cutting

Ultralon is a highly workable foam material. The following process may be used:

Hand knife cutting
Press knife cutting
Cut by mould edge
Mechanical grinding
Sanding processes
Hot knife or hot wire cutting

Laminating

Ultralon will laminate as the result of fusing the two layers of foam. The bond is chemically similar to the foam itself and is not typically the point of shear failure. Ultralon can be cemented by a range of commercially available products.

Thermo-Forming

Ultralon is a market leader in terms of the ability to perform while thermo-forming. Thermo-forming involves the heating of the foam and then its deformation in a chilled mould. The shrinkage stability of Ultralon at 2% to 4% and its predictability and thermo-forming conditions are unique properties and reflect the high technology of the Ultralon process.

Uses for Ultralon Polyolefin Foams

Refrigerated Cooly Bars
Spa Pool Covers
Insulation Pads
Bump Pads
Patching Pads
Numerous other things
Comes in a range of colours

Ultralon Polyolefin Foams

DECK TREAD

Our involvement began quietly in 1991 with the exploratory forays into the marine industry at trade level.

Some considerable success was enjoyed with Deck Tread when it was selected under Lloyd's of London approval to fit the product to the new high profile New Zealand police launch "Deodar"

We have progressed considerably through our heavy commitment to advertising and promotion eg boat shows, cooperative promotions with leading manufacturers at these shows and the fitting at no charge (or heavily discounted prices) of Deck Tread to high profile boats such as TV's "Gone Fishing" with Graham Sinclair, NZ Fisherman's and Boating NZ demo/camera craft, Americas Cup chase boats (3) and TVNZ's camera boat.

Today we supply commercial work boats, trawlers, crayfish and scallop boats, charter/ferry operators and pleasure craft. In the commercial sector - workshop/factory floors, dairy/meat/fish processors, hospitals, rest homes, pedestrian ramps and foot rests for invalid scooters. House hold users are covered by a major hardware chain with special consumer packs.

