



SANDHYA ENTERPRISES

AN ISO 9001:2015 Certified Company

*# 5-24-1223/5/1, Ambedkar Nagar Gajularamaram, Gajularamaram, Near of UMCC Hospital,
Qutuulapur Mandal R.R. Dist Hyderabad -500055 Telangana State India.*

Contact No:9652998932, 95501921831,

Email: sandhyaprises@gmail.com, sandhyarubber@gmail.com,

Website: www.sandhyafex.com, www.sandhyaenterprises.co.in

SPONGE RUBBER BEADING and PROFILES

Sandhya Enterprises manufacture sponge rubber mouldings and profiles are suitable for a multitude of applications throughout industry. The softness, elasticity, surface finish, shape and durability of sponge rubber can be varied to match the requirements of virtually any application. Precision [seals](#), [soundproofing panels](#), flexible supports... the possibilities are endless.

Take a look at our sponge rubber products and you will be amazed how versatile this material is. Our products are reliable and durable.

Areas of application

- ## What is sponge rubber?

Sponge rubber differs from [cellular rubber](#) in that it has a mixed open and closed cell structure. This rubber material has a high compression elasticity and good resilience.

It is available as natural or synthetic rubber in forms such as chloroprene, EPDM, silicone, Buna or fluorine rubber.

The raw materials used bond particularly well with the special material structure of sponge rubber. At first glance, sponge rubber appears to have the same appearance as [cellular rubber](#). Closer inspection will reveal the difference. Inside, sponge rubber has a mixed open and closed cell structure.

Technical data

It differs from [cellular rubber](#) also in that it requires the addition of an outer skin if it is to be used for [sealing](#) applications. Sponge Rubber profiles and round cords have a high compression elasticity combined with particularly good resilience.

Under light pressure the profile flexes out to the surrounding surfaces making a perfect seal. The softness of sponge rubber is varied by using special mixes and by varying its volume by weight, i.e. its density. There are two methods for manufacturing sponge rubber profiles: Moulded sponge rubber and extruded sponge rubber profiles.

- Outstanding sealing properties (with skin)
- High compressibility
- Good insulation properties
- Flexible processing options
- Very high abrasion resistance due to closed outer skin
- Mixture with high resistance to temperature and ageing (EPDM)
- Mixture with high flame resistance and oil resistance (CR/NBR)

Materials

NR – Natural rubber

High elasticity, good stability under cold conditions.

Processing

Round cord, square and moulded sponge rubber profiles are vulcanised in heated metal moulds. During the vulcanising process, chemical cross-linking takes place and it is this feature which gives sponge rubber its rubbery elastic characteristics. Adding foaming agents creates the cell structure and the final shape of foam rubber. The final shape depends of course on the production mould.

Extruded profiles, on the other hand are not shaped in a closed mould. They are formed by extrusion, that is by forcing a special rubber mixture through a nozzle or die which has the final shape of the finished profile. Vulcanising takes place outside the die at room temperature.

Sponge Rubber profiles are available in standard lengths as semi-finished products or as ready made parts custom-made to your shape and version requirements.

Bonding, cut-outs or punched parts

Sponge rubber round cord, square profile and moulded profile are available in self-adhesive versions ideal for making a clean, durable seal around circular and square openings. This is a tried-and-tested, cost-effective solution for sealing large openings in containers, tanks and casings.

To make fitting easier, we supply versions which are self-adhesive on one side or both sides.

Sponge rubber sheets are ideal for custom cut-outs or punched items.

You can find our sponge rubber profile overviews at our Service Centre.

Moulded parts



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