

SILICONE SPONGE



PREMSIL  
PREMIUM SILICONE

**PremSil FireSafe** is a specially formulated silicone sponge designed to offer the same properties as our PremSil general purpose sponge, whilst also adding flame retardance, compliant to **UL94-V0** standards. This material is particularly suited to demanding applications where there is a risk of contact with fire, or a demand for safety from fire.

**PRODUCTS:** Available as sheets, sections, cord, tubes and bespoke profiles. Supplied as lengths, O-rings, gaskets. Self-adhesive & fabric finish optional.

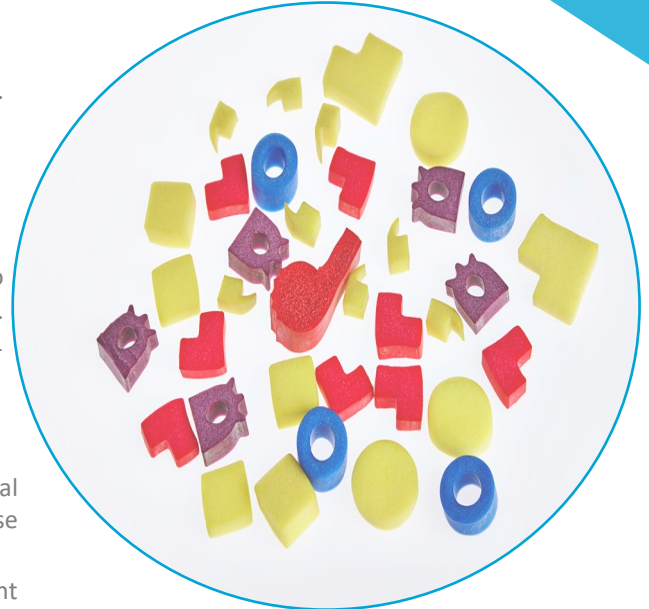
**DENSITIES:** P16 medium, P24 firm, P33 extra firm.

**SIZES:** From our standard range we manufacture sizes from 2.0mm to >100mm and our expertise allows us to manufacture practically any profile. The majority of sizes can be produced up to the tightest ISO 3302 E1 tolerances upon request with E3 tolerances promised as standard.

**APPLICATIONS:**

Sealing, gaskets, O-rings, extreme temperatures, vibration dampening, thermal insulation, industrial rollers, paper making, flexibility, weather resistance, noise reduction + more.

Silicone sponge’s flexibility makes it succeed where many solid profiles might fail and a great compression set means a longer lifespan, decreasing the need for maintenance.



TECHNICAL DATA	P16 (medium)	P24 (firm)	P33 (extra firm)	Test
Density (lbs/ft <sup>3</sup> )	16lbs/ft <sup>3</sup> (+/-4)	24lbs/ft <sup>3</sup> (+/-4)	33lbs/ft <sup>3</sup> (+/-4)	BS EN ISO 845
Density (Kg/m <sup>3</sup> )	255Kg/m <sup>3</sup> (+/-65)	390Kg/m <sup>3</sup> (+/-65)	530Kg/m <sup>3</sup> (+/-65)	
Hardness* Shore OO	47 (+/-5)	68 (+/-5)	83 (+/-5)	ASTM D2240
	Shore A	6 (+/-3)	18 (+/-4)	
Elongation at break (%)	215	225	245	BS ISO 37
Compression set** (%)				
50% compression 22 hrs at 70°C	15	15	10	EN ISO 1856
10mm thick sample				
Compression Deflection (25%) typical kpa	50	75	100	
Tensile strength (Mpa)	0.65	1.05	1.6	BS ISO 37
Temperature (min.) (°C)	-50	-50	-50	
Temperature (max.) (°C)				
Continuous	200	200	225	
Intermittent	200	225	250	
Toxicity	14	14	14	NES713 Iss. 03
Smoke Index	46	46	46	NES711 Iss. 02

\*Shore A data is provided as an approximate comparison to solid rubbers only, due to testing limitations it is not possible to accurately record Shore A hardness for silicone sponge.

\*\*Compression set & density will vary depending on product size and thickness.

Please note our information is based on lab tested samples of 25mm square. Technical data is provided in good faith, but without warranty.

End users should check to ensure our products are suitable to their intended use.