

PRODUCT DATASHEET | GENERAL PURPOSE

EXTRUDED SILICONE SPONGE SHEETS



PREMSIL
PREMIUM SILICONE

PremSil produces the highest quality silicone sponge sheets. Our in-house compounding facility gives us a competitive advantage and allows us to maintain full quality control and material integrity at each stage of the process from start to finish, for a consistent final product. PremSil Sheets offer excellent thermal resistance from -50°C to +250°C, great resistance to UV, Ozone and weathering and an excellent compression set of <15% typical.

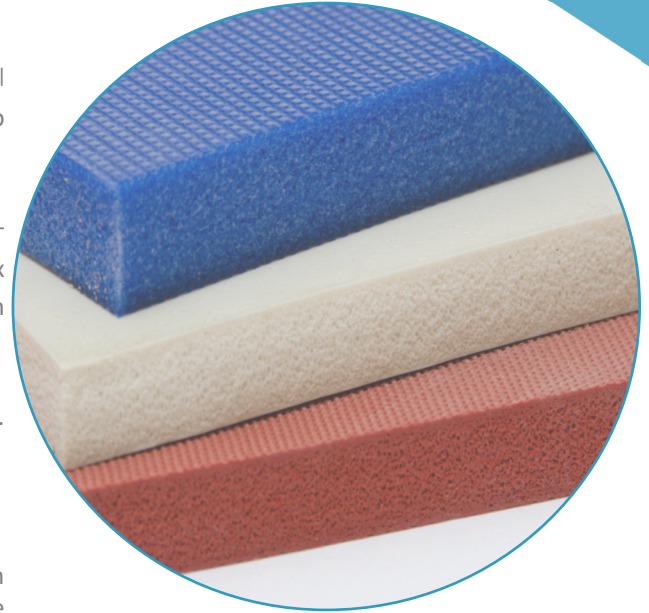
DENSITIES: PremSil P10 soft, P16 medium, P24 firm, P33 extra firm. PremSil High Temperature available for all densities (improved operating temp. to +280°C)

SIZES: We produce individual sheets 1000mm x 600mm as standard in thicknesses from 2mm to 40mm. We also manufacture 1m x 1m and 1400mm x 600mm in thicknesses from 10mm to 25mm. Custom are sizes available upon request.

OPTIONS: Available with self-adhesive backing, fabric finish 1 or 2 sides. Sheets can also be cut to gaskets in-house.

APPLICATIONS:

An elastomer designed for unrivalled reliability in sealing, cushioning, vibration dampening and insulation & particularly suited to demanding temperature applications that require a soft compressible material and is commonly used in environmental shields, electrical and automotive gaskets. PremSil Sheets are the ideal choice for gaskets and sealing applications across a wide variety of markets.



TECHNICAL DATA

P10 (soft)

P16 (medium)

P24 (firm)

P33 (extra firm)

Test

TECHNICAL DATA	P10 (soft)	P16 (medium)	P24 (firm)	P33 (extra firm)	Test
Density (lbs/ft ³)	10lbs/ft ³ (+/-4)	16lbs/ft ³ (+/-4)	24lbs/ft ³ (+/-4)	33lbs/ft ³ (+/-4)	BS EN ISO 845
Density (Kg/m ³)	160Kg/m ³ (+/-65)	255Kg/m ³ (+/-65)	390Kg/m ³ (+/-65)	530Kg/m ³ (+/-65)	
Hardness* Shore OO	35 (+/-5)	47 (+/-5)	68 (+/-5)	83 (+/-5)	ASTM D2240
	Shore A	<5	6 (+/-3)	18 (+/-4)	
Elongation at break (%)	200	215	225	245	BS ISO 37
Compression set** (%)	15	15	15	15	EN ISO 1856
50% compression 22 hrs at 70°C					
Compression Deflection (25%) typical kpa	25	50	75	100	
Tensile strength (Mpa)	0.5	0.65	1.05	1.6	BS ISO 37
Temperature (min.) (°C)	-50	-50	-50	-50	
Temperature (max.) (°C)					
Continuous	200	200	200	225	
Intermittent	200	200	225	250	
Toxicity	14	14	14	14	NES713 Iss. 03
Smoke Index	46	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 20mm thick sheet. Technical data is provided in good faith, but without warranty.

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

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