

**Silicone Rubber
Sponge General
Purpose Grade**

Specification Sheet

The material should not be compressed by more than 50% of its original thickness, as the cells may break under such compression.

The maximum compression recommended is 30% of initial thickness. Sealing with less than 30% compression helps reduce compression set and promotes product longevity.

The density range in white has been approved by the WRAS (Water Regulations Advisory Service) for use in contact with potable water at temperatures up to 85°C (185°F).

These products meet the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability test and Automotive Standard PART 571FMVSS302

The sponge is closed cell with low water absorption and dust ingress protection up to IP65, subject to design.

About the Product

Silicone rubber products have an excellent resistance to:

- Ozone
- Cosmic radiation
- Oxidation
- Ionising radiation
- Ultraviolet light
- Weathering in general
- Corona discharge

MATERIAL:	CLOSED CELL SILICONE SPONGE
TEMPERATURE FROM:	-60C
TEMPERATURE TO:	230C
BRITTLE POINT:	-80°C (-112 °F)
LIMITING OXYGEN INDEX:	24.0 %
THERMAL CONDUCTIVITY:	6,4×10⁻²W.m⁻¹.K⁻¹
RADIATION RESISTANCE:	>105 Grays(10 7 Rads) typical

QUALITY ASSURED PRODUCTS WITH FULL TRACEABILITY

Care should be taken in selecting the most suitable quality for each application.
Advice is available but final responsibility remains with the customer.

Mechanical Properties

Sheeting Property		SIL10	SIL16	SIL20	SIL24	SIL27	SIL33	TEST METHOD
Property	UNITS	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	
Density	kg.m3 lb.ft3	200 12.5	250 15.6	320 20	400 25	460 28.7	550 34.3	BSENISO 845 ASTM D3574
Hardness	Shore 00 Shore A	35 +5 <5	42+5 5	55+5 15	65+5 17	70+5 24	80+5 30	AST D2240
Tensile Strength	M P a PSI	0.6 87	0.6 87	0.75 108	0.75 108	1.5 217	2.0 290	BSENISO 1798 ASTM D412
Elongation to failure	%	140	145	120	120	130	130	BSENISO 1798 ASTM D412
Compression Set 5 0 % 24hr Recovery 70c	%	15	12	12	10	10	9.5	BSENISO 1856
Compression Set 5 0 % 24hr Recovery 100c	%	18	14.5	14	12	12.5	12	BSENISO 1856
Water Absorption	%	<5	<5	<5	<5	<5	2	AST D1056

TYPICAL APPLICATIONS

- Automotive
 - Electronics
 - Energy
 - Construction
- Typical Applications
- Heating and Ventilation (HVAC) • Industrial
 - Insulations
 - Lighting and Marine

SHEETING

- Supplied in rolls or individual sheets • Widths up to 1000mm
- Pressure sensitive adhesive backing
- Punched/Water jet-gaskets
- Full range of standard colours • Capability to colour match