

KS SIL F-230 SILICONE SPONGE



SPECIFICATIONS

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 to IP65. 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). The listing number is 1304521.

PROPERTIES

Temperature Range -60°C to 230°C (-76°F to 446°F)
and up to 250°C (482°F) intermittent

Grades

	GP200	GP400
Standard:	GP250	GP450
	GP350	GP530

Availability

Mouldings	Rolls	Gaskets	Cables	Extrusions	Compound	Tubing
○	●	●	○	●	○	○

ENVIRONMENT RESISTANCE

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, cosmic radiation, ionising radiation and weathering in general.

AVAILABILITY

- Sheetting supplied in Rolls or individual sheets of 1 x 2 m
- Widths up to 1000mm
- Adhesive backing as assembly aid possible
- Punched/Water Jet gaskets
- Full range of standard colours
- Capability to colour match

GENERAL CHARACTERISTICS

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	$6.4 \times 10^2 \text{ W.m}^{-1} \cdot \text{K}^{-1}$	BS 874 Part 2
Radiation Resistance	$>10^5$ Grays (10^7 Rads) typical	

TYPICAL APPLICATIONS

Automotive, Electronics, Energy, Construction, Heating and Ventilation (HVAC), Industrial, Insulations, Lighting and Marine

MECHANICAL PROPERTIES

Property	Units	GP200	GP250	GP350	GP400	GP450	GP530	Test Method
		Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	
Density	kg/m ³	195	256	320	400	460	550	BSENISO 845
Hardness	Shore A	<5	5	15	17	24	30	ASTM D2240
Tensile Strength	MPa	0.6	0.6	0.75	0.75	1.5	2.0	BSENISO 1798
Elongation to Failure	%	140	145	120	120	130	130	BSENISO 1798
Water Absorption	%	<5	<5	<5	<5	<5	2	ASTM D1056
Compression Stress								
40%	kPa	50	90	120	165	230	470	BSENISO 3386 Part 1,2
25%	psi	4.6	6.4	8.3	9.0	17.4	34.8	ASTM D1056
Compression Set								
50% 24H recovery 22H @ 70°C	%	15.0	12.0	12.0	10.0	10.0	9.5	BSENISO1856
50% 24H recovery 22H @ 100°C	%	18.0	14.5	14.0	12.0	12.5	12.0	ASTM D1056

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