Technical Data Sheet

Silicone Rubber Sponge High Temperature (270°C)

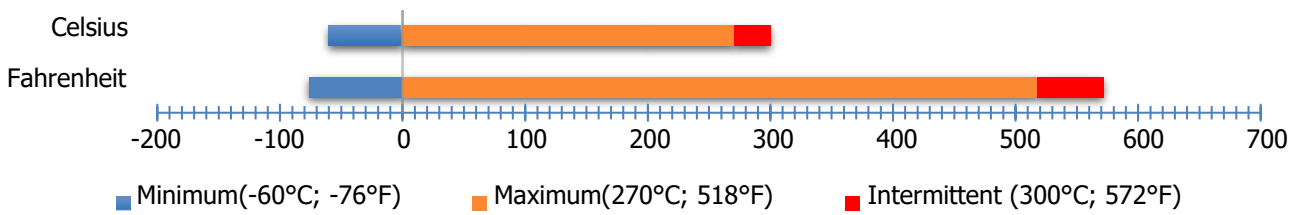
Material

Closed cell Silicone Sponge for high temperature applications

Available Grades

SP10HT, SP16HT, SP24HT, SP33HT

Temperature Range



General Information

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.

Environmental Resistance

Silicone rubber products have an excellent resistance to:

- Ozone
- Ultraviolet light
- Cosmic radiation
- Weathering in general

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Availability Format

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

Typical Applications

- Automotive
- Electronics
- Energy
- Heating and Ventilation (HVAC)
- Industrial
- Lighting and Marine

Mechanical Properties

Grades		SP10HT	SP16HT	SP24HT	SP33HT	
Property	**Units**	**Typical Value**	**Typical Value**	**Typical Value**	**Typical Value**	**Test Method**
Density *	kg.m³ lb.ft³	220 14	250 16	390 24.0	550 34.3	BSENISO 845 ASTM D3574
Hardness **	Shore OO Shore A	25 2	42 5	63 17	86 30	ASTM D2240
Compression Stress 40% Strain ***	kPa PSI	50 4.6	90 6,4	165 9.0	470 34.8	BSENISO 33886 Part 1,2 ASTM D1056
Tensile Strenght	MPa PSI	0.6 87	0.6 87	0.8 116	2 290	BSENISO 1798 ASTM D412
Elongation to failure	%	140	145	120	130	BSENISO 1798 ASTM D412
Compression Set 50% Compression 24hrs Recovery, 22 hrs 70°C (158°F)	%	10.0	1.0	1.0	4.0	BSENISO 1856
Compression Set 50% Compression 24hrs Recovery, 22 hrs 100°C (212°F)	%	22.0	4.0	4.0	10.0	ASTM D1056

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General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	$6{,}4 \times 10^{-2}$ W.m .K $^{-1}$	BS2782 Part 1
Radiation Resistance	$>10^5$ Grays (10^7 Rads) typical	

Accreditations

- FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv)(a)(1)(v) horizontal flammability test
- REACH compliant and ROSH compliant