

VGD150-600VOSH

Flame Retardant Silicone Sponge Sheet

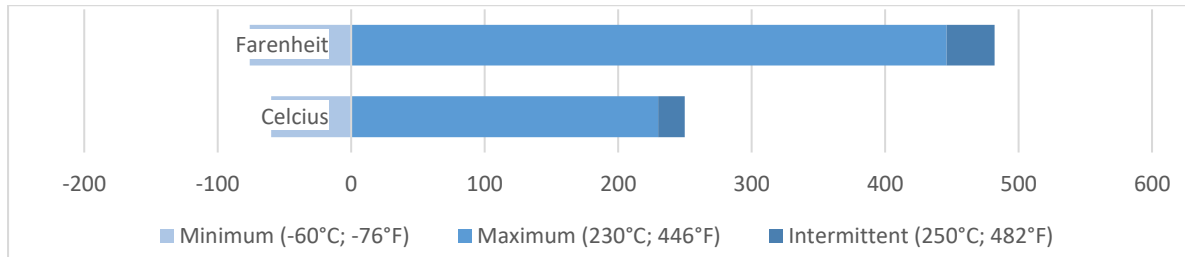
Material

UL94V0 flame retardant closed cell silicone sponge

Available Grades

VGD150-600VOSH

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 and meets UL94V0 at 1.5mm and above.

Material compliance

- FAR 25/JAR25/CS 25 Appendix F, Part 1, (a)(1)(iv) (a)(1)(v) horizontal flammability test
- Automotive standard PART 571MVSS302
- EN45545-2 European Railway Standard for Fire Safety
- REACH and RoHS compliant
- Capable of meeting several ASTM D1056 2A1 and 2D1, ASTM D6576 Grades B & C, AMS3195 certifications
- NFPA 130 – US Standard for Transit and Passenger Rail Systems
- Airbus ABD0031 – Airbus Fire Test for Aircraft Materials

Typical Applications

- Automotive
- Electronics
- Applications of long service life required vs other elastomers
- Aerospace
- Energy
- Mass Transit
- Applications of high flame resistance and low toxicity

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Environmental Resistance

Silicone Rubber Products have an excellent resistance to:

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

Availability Format

- Sheet 1m wide
- Slit Strips
- Cut Gaskets
- Sealing Solutions

Material Properties

Property	Units	Typical Value						Test Method
		VGD150VOSH	VGD220VOSH	VGD300VOSH	VGD390VOSH	VGD450VOSH	VGD600VOSH	
Density*	kg/m ³ lb/ft ³	150 (10.0)	220 (13.7)	300 (19.4)	390 (24.3)	450 (28.0)	570 (35.6)	ISO 845 ASTM D1056
Compression Stress 25% Strain**	kPa (PSI)	19.0 (2.8)	28 (4.1)	40 (5.8)	62 (9.0)	100 (14.5)	150 (21.8)	ASTM D1056
Compression Stress 40% Strain***	kPa (PSI)	42 (6.1)	63 (9.1)	90 (13.0)	140 (20.3)	225 (32.6)	335 (48.6)	ISO 3386 part 1,2
Tensile Strength	kPa (PSI)	170 (24.7)	280 (40.6)	304 (44.0)	445 (64.3)	675 (97.8)	830 (120.4)	ISO 1798 ASTM D412
Elongation to Failure	%	110	130	90	100	90	90	ISO 1798 ASTM D412
Compression Set 50% Compression 24 hrs Recovery, 22hrs @ 70	%	<1	<1	<1	<1	<1	<1	ISO 1856
Compression Set 50% Compression 24 hrs Recovery, 22hrs @ 110°C (212°F)	%	1	2	3	3	3	2	ASTM D1056
Thermal Conductivity	W/m·K	0.064	0.077	0.099	0.118	0.138	0.171	DIN EN933-15
Water Absorption	%	<3	<3	<1	<1	<2	<2	ASTM D1056

These figures are only intended as a guide and should not be used in preparing specifications.

- *Density measured on 12.7mm sheeting sample. The density of samples of different sizes.
- ** Compression stress measured on samples as defined in BS EN ISO 3386 and ASTM D1056 respectively.
- The compressive stress on samples of different dimensions may vary from that quoted here.
- For further information about physical properties for other sample sizes, please contact the sales department.

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