

# VGD10-33HTSH

## High Temperature (270°C) Silicone Sponge Sheet

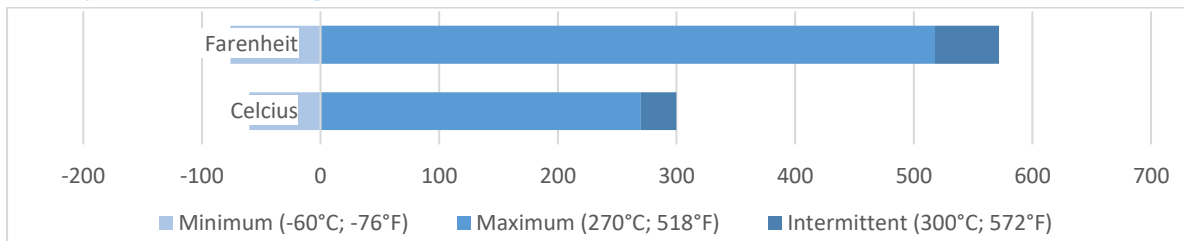
### Material

Closed cell silicone sponge for high temperature applications

### Available Grades

VGD10HTSH, VGD16HTSH, VGD24HTSH, VGD33HTSH

### 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.

### Material compliance

- FAR 25/JAR25/CS 25 Appendix F, Part 1, (a)(1)(iv) (a)(1)(v) horizontal flammability test
- Automotive standard PART 571MVSS302
- REACH and RoHS compliant

### Environmental Resistance

Silicone Rubber Products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet Light
- Corona Discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

### Availability Format

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

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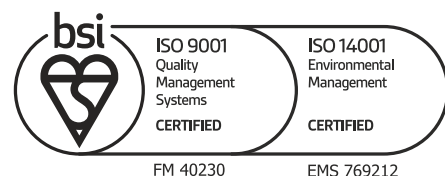
**Viking Extrusions Ltd** – Ivy Arch Road, Worthing, West Sussex, BN14 8BX, UK

Company Number: 2634482UK

VAT Number: GB587651394

Registered in England & Wales

REV 01 – Last Updated: 17/06/24



# VGD10-33HTSH

## High Temperature (270°C) Silicone Sponge Sheet

### Typical Applications

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

### Material Properties

Property	Units	Typical Value				Test Method
		VGD10HTSH	VGD16HTSH	VGD24HTSH	VGD33HTSH	
Density*	Kg/m <sup>3</sup>	220	250	390	550	BSENSIO 845
	lb/ft <sup>3</sup>	14	16	24	34.3	ASTM D3574
Hardness**	Shore OO	25	42	63	86	ASTM D2240
	Shore A	2	5	17	30	
Compression Stress 40% Strain***	kPa	50	90	165	470	BSENSIO 33886 Part 1,2 ASTM D1056
	(PSI)	4.6	6.4	9.0	348.8	
Tensile Strength	MPa	0.6	0.6	0.8	2	BSENISO 1798 ASTM D412
	(PSI)	87	87	116	290	
Elongation to Failure	%	140	145	120	130	BSENISO 1798 ASTM D412
Compression Set 50% Compression 24 hrs Recovery 22hrs 70°C (158°F)	%	10.0	1.0	1.0	4.0	BSENISO 1856
Compression Set 50% Compression 24 hrs Recovery 22hrs 100°C (212°F)	%	22.0	4.0	4.0	10.0	ASTM D1056

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

### General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	0.24 W.m-1.K.1	VDE 0304
Radiation Resistance	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	
Dielectric Strength	23 kV.mm <sup>-1</sup>	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10 <sup>-4</sup>	VDE 0303
Volume Resistivity	3x10 <sup>15</sup> Ω.cm	VDE 0303

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FM 40230

EMS 769212