

VFR40-70SH

Flame Retardant Silicone Rubber Sheet

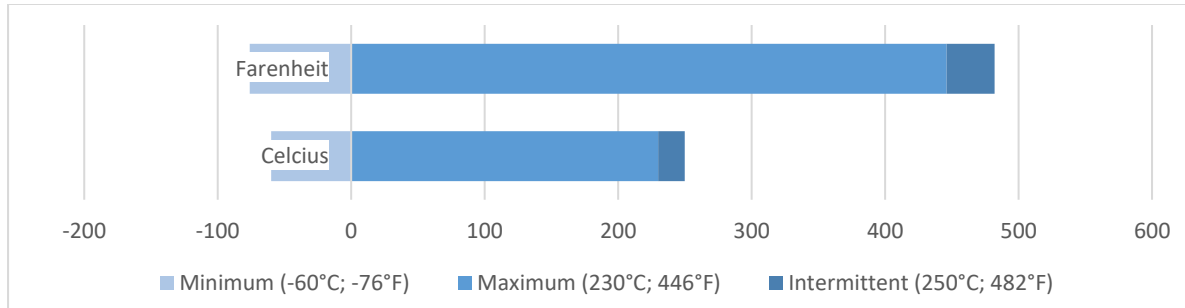
Material

Flame Retardant Silicone Rubber Sheet

Available Grades

VFR40SH, VFR50SH, VFR60SH, VFR70SH

Temperature Range



General Information

VFR sheeting range is particularly suited to use as seals and gaskets, in areas where public safety is critical. There is a full range of standard colours available, and colours can be matched to customer requirements.

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 571MVSS302.

2mm samples meet **UL94 V1 and V2** specification and sample. However, they **do not hold UL Approval**.

Material compliance

- FDA 21 CFR 177-2600 compliant
- BfR compliant
- EC1935/2004
- WRAS compliant VGP40-70SH only

Environmental Resistance

Silicone Rubber Products have an excellent resistance to:

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

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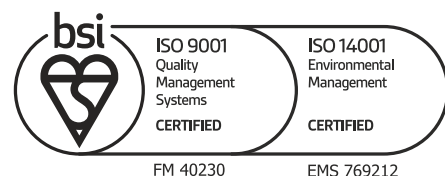
Viking Extrusions Ltd – Ivy Arch Road, Worthing, West Sussex, BN14 8BX, UK

Company Number: 2634482UK

VAT Number: GB587651394

Registered in England & Wales

REV 01 – Last Updated: 14/06/24



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Typical Applications

- Automotive
- Domestic and Commercial Catering
- Marine
- Construction
- Energy
- Food & Beverage
- Electronics
- Industrial
- Insulation
- Lighting
- Heating and Ventilation (HVAC)

Material Properties

Property	Units	VFR40SH	VFR50SH	VFR60SH	VFR70SH	Test Method
		Spec limits Typical value	Spec limits Typical value	Spec limits Typical value	Spec limits Typical value	
Hardness	Shore A	<u>40 ± 5</u> 40	<u>50 ± 5</u> 50	<u>60 ± 5</u> 60	<u>70 ± 5</u> 70	ASTM D2240 DIN ISO 7619-1
Tensile Strength	MPa (PSI)	<u>6.5 min</u> 7.6 (943 min) (1102)	<u>7.5 min</u> 8.4 (1088 min) (1218)	<u>8.5 min</u> 9.3 (1233 min) (1349)	<u>8.0 min</u> 9.0 (1160 min) (1305)	ISO 27 type 1 ASTM D412 die C DIN 53504 type S1
Elongation to Failure	%	<u>400 min</u> 474	<u>350 min</u> 377	<u>250 min</u> 294	<u>200 min</u> 269	ISO 27 type 1 ASTM D412 die C DIN 53504 type S1
Tear Strength	N/mm (lb./in.)	<u>10.0 min</u> 15.5 (57.1min) (88.51)	<u>15.0 min</u> 21.7 (85.7 min) (123.9)	<u>15.0 min</u> 18.3 (85.7 min) (104.5)	<u>15.0 min</u> 20.0 (85.7 min) (114.2)	ASTM D624 die B
Compression Set 24 hrs @ 150°C	%	<u>35 max</u> 17	<u>30 max</u> 14	<u>30 max</u> 8.4	<u>30 max</u> 9.9	BS 903 pt A6 Type B DIN/ISO 815 type B
Compression Set 22 hrs @ 300°F	%	<u>35 max</u> 16	<u>30 max</u> 13	<u>30 max</u> 8	<u>30 max</u> 9	ASTM D395 method B type 2

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

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FM 40230

EMS 769212

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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	0.24 W.m-1.K.1	VDE 0304
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	
Dielectric Strength	23 kV.mm ⁻¹	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10 ⁻⁴	VDE 0303
Volume Resistivity	3x10 ¹⁵ Ω.cm	VDE 0303

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