

VGP20-80SH

Silicone Rubber Sheetting General Purpose Solid

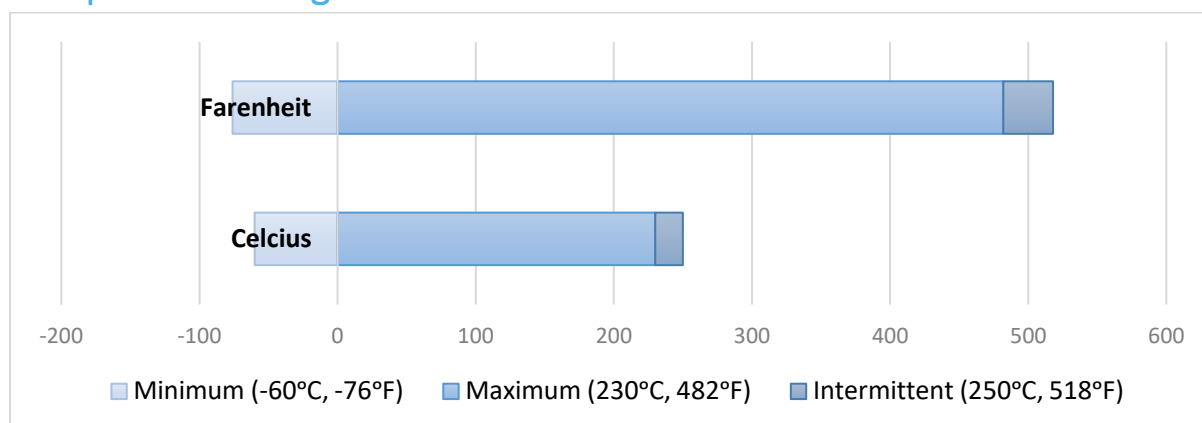
Material

General Purpose Silicone Rubber

Available Grades

VGP20SH, VGP30SH, VGP40SH,
VGP50SH, VGP60SH, VGP70SH,
VGP80SH

Temperature Range



General Information

Our colour range has been tested to and is in accordance with the American Food and Drugs Administration (FDA) 21 CFR 177-2600, BFR XV Empfehlung and colour bleed test according to BFR Empfehlung part B 11 & Directive EC 1935/2004.

Translucent, Blue, White, Red and Black have been approved by the WRAS (Water Regulations Advisory Service) for use in contact with potable water at temperatures up to 85°C (185°F) in GP 40-70 only.

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.

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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Availability Format

- Supplied in continuous roll lengths
- Widths of 1000mm and/or 1200mm (dependent on shore hardness), 1000mm x 1000mm for 15mm+ thickness
- 1500mm and 1800mm width available on request.
- Up to 20mm thickness subject to shore
- Pressure sensitive adhesive backing
- Punched, CNC cut gaskets
- Slit strips
- Full range of standard colours
- Capability to colour match

Typical Applications

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

Mechanical Properties

Property	Units	VGP20SH	VGP30SH	VGP40SH	VGP50SH	VGP60SH	VGP70SH	VGP80SH	Test Method
Hardness	Shore A ± 5	20	30	40	50	60	70	80	ASTM D2240 DIN ISO 7619-1
Tensile Strength	MPa (PSI)	10.1	8.0 (1150)	9.0 (1300)	9.0 (1300)	10.0 (1450)	10.0 (1450)	7.0 (1015)	ISO 37 type 1 ASTM D412 die C DIN 53504 Type S1
Elongation to Failure	%	979	500	525	450	400	320	215	ISO 37 type 1 ASTM D412 die C DIN 53504 Type S1
Tear Strength	N/mm (lb./in.)	25.0	16.0 (91)	23 (130)	18 (100)	22 (125)	20 (115)	17 (88.5)	ASTM D624 die B
Compression Set 24 Hrs @ 150°C	%	23	23	25	15	13	9	18	BS 903 pt A6 type B DIN/ISO 815 type B
Compression Set 22 Hrs @ 300°F	%	-	20	22	16	10	10	16	ASTM D395 method B type 2

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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	>105Grays (107Rads) typical	
Dielectric Strength	23 kV.mm-1	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10-4	VDE 0303
Volume Resistivity	3x1015Ω.cm	VDE 0303

Accreditations

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

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