

TECHNICAL DATA SHEET

SILICONE RUBBER SHEETING

GENERAL PURPOSE SOLID

SILEX
SILICONES

MATERIAL

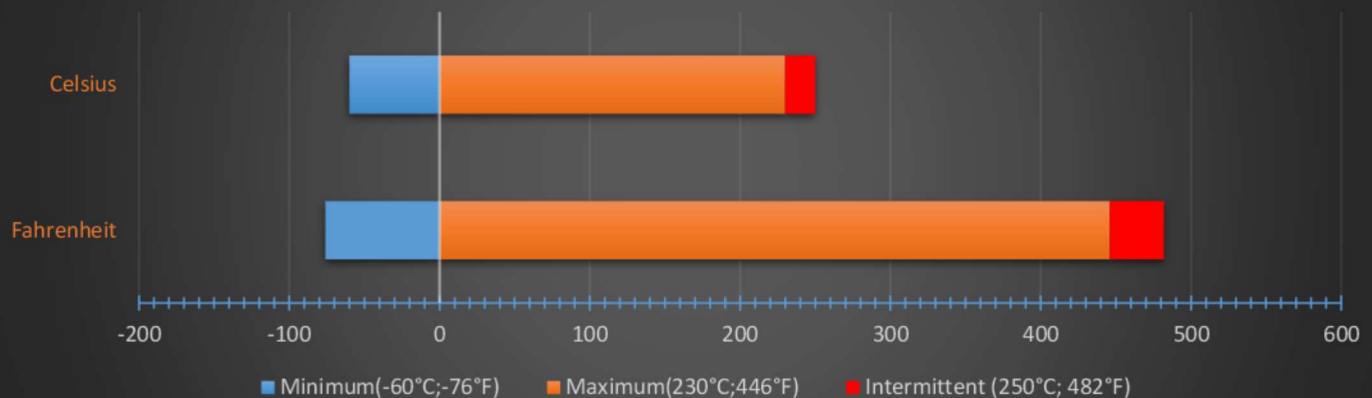
General Purpose Silicone Rubber

AVAILABLE GRADES

GP 20, GP 30, GP 40, GP 50, GP 60, GP 70, GP 80

TEMPERATURE

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).

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 1200mm (standard), 1000mm x 1000mm for 15mm+
- ✓ 1500mm and 1800mm on request
- ✓ Pressure sensitive adhesive backing
- ✓ Punched and Water jet gaskets
- ✓ Slit strips
- ✓ Full range of standard colours
- ✓ Capability to colour match

TYPICAL APPLICATIONS

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

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SILEX SILICONES LIMITED

Unit 10, Oakhanger Farm Business Park, Oakhanger, Hampshire, GU35 9JA, Tel 0044 1420 470 360, Fax 0044 472 802

E-Mail: info@silex.co.uk, Website: www.silex.co.uk, Registered in England No. 1951973

Director: S J Fearn

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MECHANICAL PROPERTIES

PROPERTY	UNITS	GP 30	GP 40	GP 50	GP 60	GP 70	GP 80	TEST METHOD
		TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	
HARDNESS	Shore A ±5	30	40	50	60	70	80	ASTM D2240 DIN ISO 7619-1
TENSILE STRENGTH	Mpa (PSI)	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	%	500	625	450	400	320	215	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
TEAR STRENGTH	N/mm (lb./in.)	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	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

In-house capabilities for extensive industry specific testing available on request.

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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ACCREDITATIONS

- ❖ FDA 21 CFR 177-2600
- ❖ BfR
- ❖ EU 1935/2004
- ❖ WRAS
- ❖ FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) (a)(1)(v) horizontal flammability test
- ❖ Automotive Standard PART 571MVSS302
- ❖ REACH compliant and RoHS compliant

ADDITIONAL INFORMATION

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