SILICONE RUBBER SOLID SHEET | GENERAL PURPOSE | GP60

Our General-Purpose Silicone Rubber Sheeting is an excellent choice for applications requiring good sealing properties at high and low temperatures.

Suitable for use at -40°C up to +200°C and 230°C short term, silicone sheet is available from stock in White, Translucent, Black, Blue and Red Oxide in thicknesses ranging from 0.3mm up to 15mm thick.

Fully compliant to FDA standard 177.2600 and EC 1935/2004, General Purpose silicone sheets are suitable for applications requiring direct food contact.

All of our silicone sheet products are available plain or adhesive backed and can be supplied in sheet form or converted into strips, seals, washers, gaskets and fabricated articles. Please see below for the typical stock range and formats for our standard grades.

GRADES

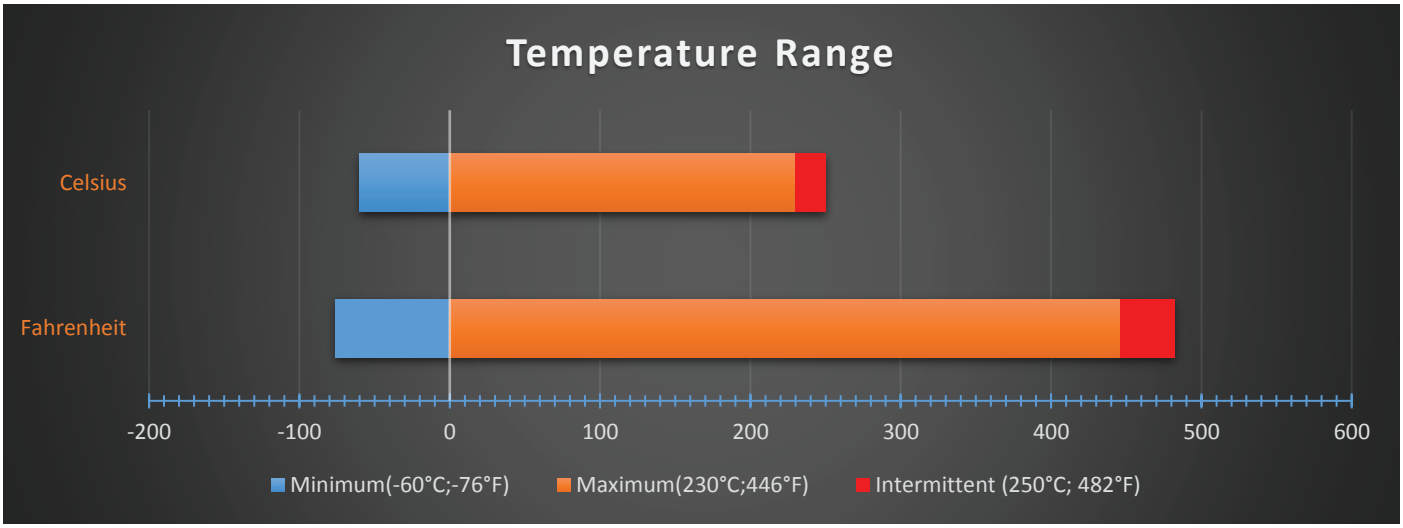
GP30 GP40 GP50 **GP60** GP70 GP80

SPECIFICATIONS

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 WRAS (Water Regulations Advisory Service) for use with potable water at temperatures up to 85°C (185°F). The listing number is 1310541.

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 tests and Automotive Standard PART 571FMVSS302.



ENVIRONMENTAL RESISTANCE

Silicone rubber products have an excellent resistance to:

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

TYPICAL APPLICATIONS

Silicone rubber products have an excellent resistance to:

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

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	$3x10^{15}\Omega.cm$	VDE 0303

MECHANICAL PROPERTIES

		GP 30	GP 40	GP 50	GP 60	GP 70	GP 80	
Property	Units	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Test Method
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

Contact us to discuss requirements and place your order **07 3277 3922**

All information and data quoted has been provided by our suppliers and is based upon years of experience in the production and operation of sealing elements. This data may not be used to support any warranty claims. With its publication this latest edition supersedes all previous issues and is subject to change without further notice.