



**MATERIAL**

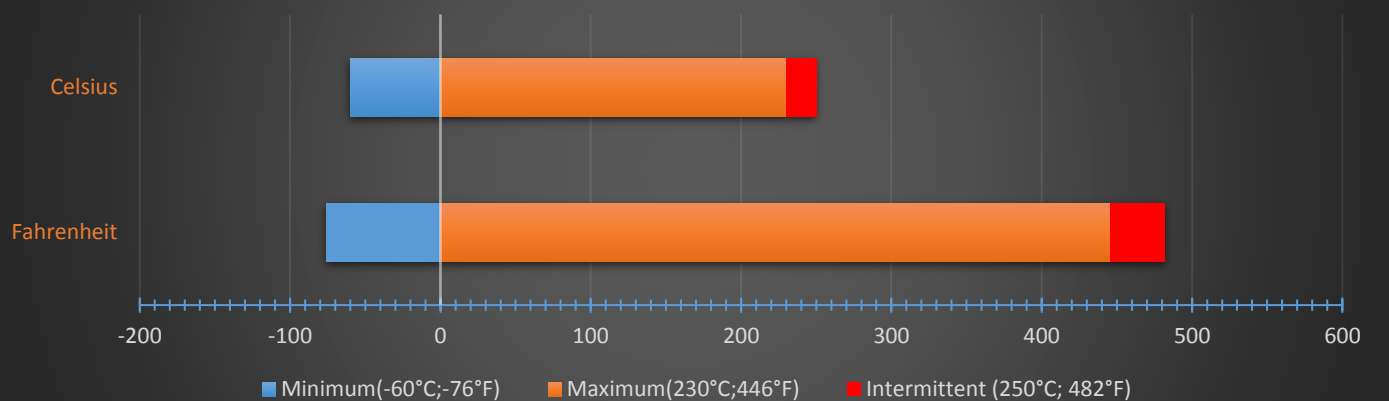
General Purpose Silicone Rubber

**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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**MVQ SILICONES GMBH**

Industriepark Hertzstrasse, Hertzstrasse 11, D-69469 Weinheim, Deutschland, Tel 0049 6201 259040, Fax 0049 6201 2590410

E-Mail: [info@mvq-silicones.de](mailto:info@mvq-silicones.de), Website: [www.mvq-silicones.de](http://www.mvq-silicones.de), Registered in Germany No. HRB 701069

Director: K Soudah



***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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TECHNICAL DATA SHEET

**SILICONE RUBBER SHEETING**

**GENERAL PURPOSE SOLID**



***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 <sup>-1</sup> .K <sup>-1</sup>	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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# SILICONE RUBBER SHEETING

## GENERAL PURPOSE SOLID



### ACCREDITATIONS

- ❖ FDA 21 CFR 177-2600 compliant
- ❖ BfR compliant
- ❖ EU 1935/2004
- ❖ WRAS compliant
- ❖ 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
- ❖ ROHS compliant

### ADDITIONAL INFORMATION

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