

## TECHNICAL DATA SHEET

# SILICONE RUBBER SHEETING HIGH TEMPERATURE SOLID



### MATERIAL

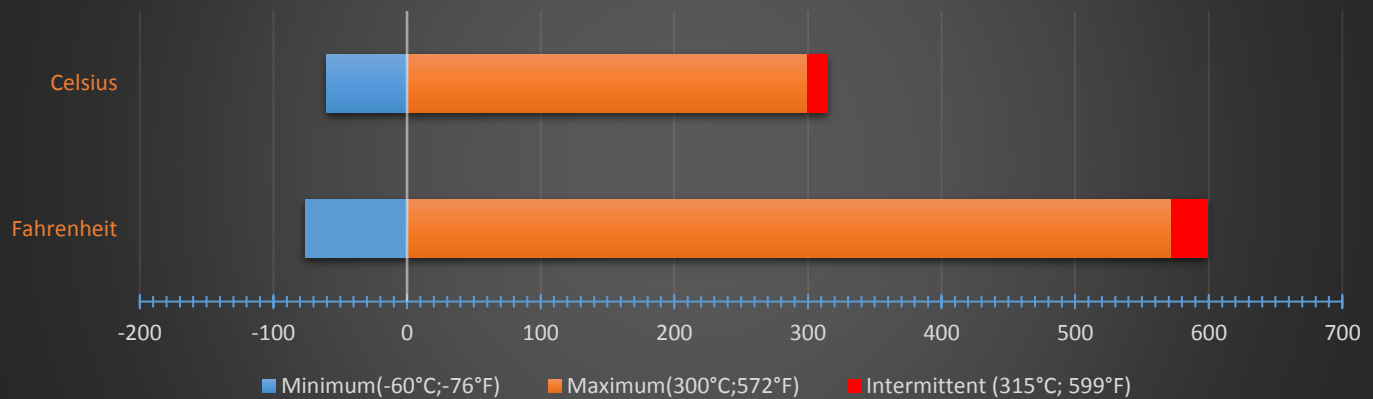
High Temperature Silicone Rubber for 300°C

### AVAILABLE GRADES

GP60THT available from stock, GP40THT to GP80THT available on request

### TEMPERATURE

## Temperature Range



### GENERAL INFORMATION

Our colour range contains only ingredients approved and listed within the American Food and Drugs Administration (FDA) 21 CFR 177-2600.

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
- ❖ Wheatering in general

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#### MVQ SILICONES GMBH

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Director: K Soudah

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### *AVAILABILITY FORMAT*

- ✓ Supplied in continuous roll lengths
- ✓ Widths of 1000mm (standard)
- ✓ Other widths available on request
- ✓ Pressure sensitive adhesive backing
- ✓ Punched and water jet gaskets
- ✓ Red Oxide and White from stock
- ✓ Capability to colour match
- ✓ Fabricated articles

### *TYPICAL APPLICATIONS*

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

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***MECHANICAL PROPERTIES***

PROPERTY	UNITS	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TEST METHOD
HARDNESS	Shore A ±5	40	50	60	70	80	ASTM D2240 DIN ISO 7619-1
TENSILE STRENGTH	MPa (PSI)	7 1015	8 1160	9 1305	10 1450	10 1450	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
ELONGATION TO FAILURE	%	600	400	350	350	450	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
TEAR STRENGTH	N/mm (Lb./in.)	15 86	18 102	22 125	19 109	29 166	ASTM D624 die B
COMPRESSION SET 24 HRS @ 150°C	%	13	11	11	10	12	BS 903 pt A6 type B DIN/ISO 815 type B
COMPRESSION SET 22 HRS @ 300°C	%	13	10	10	10	10	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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### ACCREDITATIONS

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

### ADDITIONAL INFORMATION

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