

# Technical Data Sheet

Silicone Rubber Sheeting High Temperature Solid



## Material

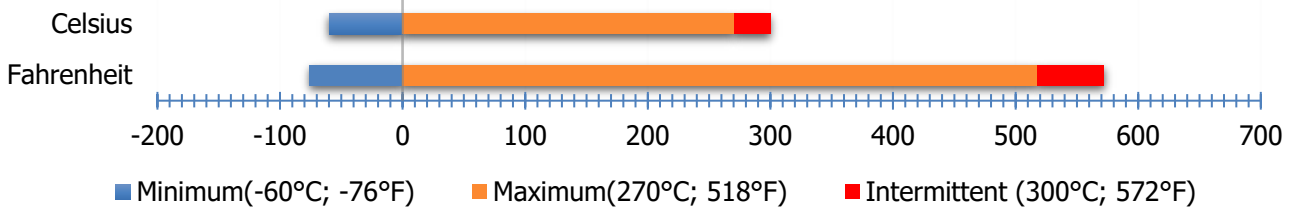
High Temperature Silicone Rubber for 300°C



## Available Grades

GP60THT available from stock, GP40THT to GP80THT available on request

## Temperature 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
- Weathering in general

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SILEX SILICONES LTD

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

## 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

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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 <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

## Accreditations

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

## Additional Information

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