

Technical Data Sheet

Silicone Rubber Sheeting High Temperature Solid



Material

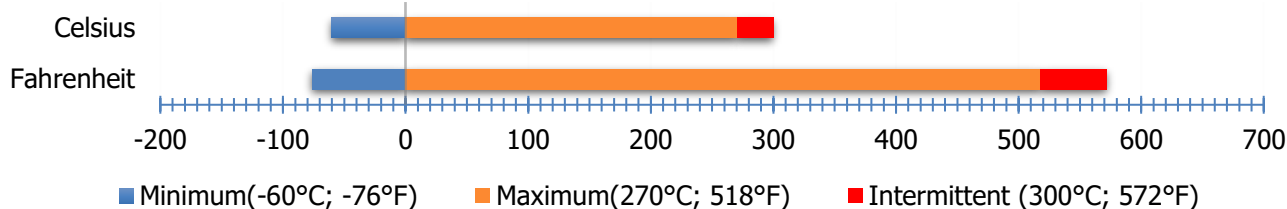
High Temperature Silicone Rubber for 300°C



Available Grades

GP60THT available from stock,
GP40THT to GP70THT 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

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith but without warranty. This also applies where proprietary rights are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for their intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale. The information contained within this data sheet is subject to change without notice. Issue date 01.01.2019.

SILEX LTD

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E-Mail: sales@silex.co.uk, Website: www.silex.co.uk, Registered company number: 1951973. Place of registration: England & Wales.

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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	Test Method
Hardness	Shore A ± 5	40	50	60	70	ASTM D2240 DIN ISO 7619-1
Tensile Strength	Mpa (PSI)	7 1015	8 1160	9 1305	10 1450	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Elongation to Failure	%	600	400	350	350	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	ASTM D624 die B
Compression set 24 hrs @ 150°C	%	13	11	11	10	BS 903 pt A6 type B DIN/ISO 815 type B
Compression set 22 hrs @ 300°C	%	13	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 ⁻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

Accreditations

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