

SILEX

SILICONE S0



Certificate No. 0372

Solid Silicone Sheet - THT High Temperature Sheeting

Grades GP40THT GP50THT GP60THT GP70THT

Temperature Range 60°C (- 76°F) to 300°C (572°F) and up to 315°C (599°F) intermittent short term

Specifications

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 tests and Automotive Standard PART 571FMVSS302.

Environment Resistance

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionising radiation and weathering in general.

Availability

Supplied in continuous roll lengths
Widths of 1000mm (standard)
Pressure sensitive adhesive backing.
Punched and water Jet gaskets.
Full range of standard colours.
Capability to colour match.

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

Typical Applications

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

SILEX Limited

Unit 4 & 5, Broxhead Trading Estate, Lindford, Bordon, Hampshire, GU35 0NY

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Directors: N J R Soudah S. J Fearn

Registered in England No. 1951973. Registered at the above address.

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Mechanical Properties

Property	Units	GP40THT		GP50THT		GP60THT		GP70THT		Test Method
		Spec Limits	Typical Value	Spec Limits	Typical Value	Spec Limits	Typical Value	Spec Limits	Typical Value	
Hardness	Shore A	40±5	44	50±5	54	60±5	64	70±5	70	ASTM D2240 DIN ISO 7619-1
Tensile Strength	MPa Psi	7.0 min 1015 min	7.1 1030	7.5 min 1088 min	8.2 1189	8.5 min 1233 min	9.4 1363	9.0 min 1305 min	10.7 1552	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Elongation to Failure	%	300 min	396	300 min	387	300 min	362	280 min	332	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Tear Strength	N/mm Lb./in.	12.0 min 68.5 min	15.3 87.4	15.0 min 85.7 min	17.7 101.1	18.0 min 102.8 min	22.1 126.2	18.0 min 102.8 min	19.3 110.2	ASTM D624 die B
Compression Set 24 Hours @ 150°C	%	35 max	13	30 max	11	30 max	11	30 max	10	BS 903 pt A6 type B DIN/ISO 815 type B
Compression Set 22 Hours @ 300°C	%	35 max	13	30 max	10	30 max	10	30 max	10	ASTM D395 method B Type 2

Extra Information

In-house capabilities for extensive industry specific testing available on request.

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