

# High Temperature Solid Silicone Elastomer Sheeting

## Grades

kSil™THT40    kSil™THT50    kSil™THT60    kSil™THT70    kSil™THT80

## Temperature Range

-60°C (-76°F) to 270°C (518°F)  
and up to 300°C (572°F) intermittent

## 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

### Mouldings



### Sheeting



### Gaskets



### Cables



### Extrusions



### Compound



### Tubing



## Availability

- Supplied in continuous roll lengths.
- Widths of 1200mm (standard), 1500mm and 1800mm.
- 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 <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

## 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	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 hours @ 150°C	%	13	11	11	10	12	BS 903 pt A6 type B DIN/ISO 815 type B
Compression Set 22 hours @ 300°F	%	13	10	10	10	10	ASTM D395 method B type 2

## Extra Information

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