

Solid Silicone Elastomer Sheeting and Extrusion

Specifications

The metal detectable range has been tested to and is in compliance with the American Food and Drugs Administration (FDA) 21 CFR 177-2600 & Directive EC 1935/2004.

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.

Availability

Mouldings



Sheeting



Gaskets



Cables



Extrusions



Compound



Tubing



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

Commercial Catering, Food & Beverage

Temperature Range

-60°C (-76°F) to 200°C (392°F)
and up to **250°C (482°F) intermittent**

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

- Sheeting supplied in continuous roll lengths.
- Sheeting widths of 1200mm (standard),
- Pressure sensitive adhesive backing.
- Punched and Water Jet gaskets.
- Extruded profiles and tubing
- Fabricated seals and gaskets

Solid Silicone Elastomer Sheeting and Extrusion

Mechanical Properties

<u>Property</u>	<u>Units</u>	<u>Spec Limits</u>	<u>Typical Value</u>	<u>Test Method</u>
Hardness	Shore A	70+/-5	68.7	ASTM D2240 DIN ISO 7619-1
Tensile Strength	MPa psi	8.0 min. 1160 min.	8.42 1221	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Elongation to Failure	%	300 min.	327	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Tear Strength	N/mm lb./in.	12 min. 68.5 min.	19.1 109	ASTM D624 die B
Compression Set 24 hours @ 150°C	%	35 max.	11.2	BS 903 pt A6 type B DIN/ISO 815 type B
Compression Set 22 hours @ 300°F	%	35 max.	11.0	ASTM D395 method B type 2
Magnetic Pull	mm	-	7.3	SEWI 700