

Sil V-0 is a closed cell, flame retardant silicone sponge formulated for use in applications where high flame resistance and low smoke toxicity is required such as Mass Transit, Aerospace, Automotive/EV and Electronic sectors.

Availability:

- Grey (standard) & Black
- Sheets and Rolls (Widths up to 1Mtr)
- Pressure Sensitive Adhesive (PSA) Backing
- Punched / Water Jet Gaskets
- Cords, Tubes, Profiles, Joined Rings & Sections

Benefits



Temperature range
-60°C to 230°C
(-76°F to 446°F)



Environmental resistance
Ozone, UV and weather resistant



Flame retardant
UL94V0



Long life service
vs other elastomers

Accreditations



UL94 Vertical Burn Flammability Test



European Railway Standard for Fire Safety



Standard for Transit and Passenger Rail Systems



Airbus Fire Test for Aircraft Materials

Capable of meeting: ASTM D1056 2A2 and 2D2; ASTM D6576 Grades A, B & C (Soft-Medium)

General Characteristics:

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Volume Resistivity	3.89 x 10 ¹⁴	ASTM D257
Dielectric Strength	6.06 kV/mm	ASTM D 149

Convertors and suppliers of die cut gaskets, tape, sheeting, fabrications, machined plastic components, rubber mouldings, extrusions and adhesives.



Mechanical Properties:

Property	Units	CBF Sil V-0 Soft-Medium	Test Method
Density (*Measured on 12.7mm sheet)	Kg/m ³ lb.ft ⁻³	300 19.4	ISO 845 ASTM D1056
Compression Force Deflection 25% strain	kPa psi	40 5.8	ASTM D1056
Compression Force Deflection 40% strain	kPa psi	90 13	ISO 3386 part 1, 2
Tensile Strength	kPa psi	304 44	ISO 1798 ASTM D412
Elongation at failure	%	90	ISO 1798 ASTM D412
Compression Set 50% compression 24 hours recovery. 22 hours @ 70 °C (158°F)	%	<1	ISO 1856
22 hours @ 100°C (212 °F)	%	3	ASTM D1056
Thermal conductivity	W/m.K	0.099	DIN EN993-15
Water Absorption	%	<1	ASTM D1056

Standard Capabilities *Other sizes available on request

Thickness mm (inches)	Width mm (inches)	Length M (ft)
2mm – 12mm (0.078"-0.472")	1000mm (39")	5m (16.5ft)
>12mm – 15mm (>0.472"-0.590")	1000mm (39")	5m (16.5ft)
>15mm – 25mm (>0.590 – 1.0")	1000mm (39")	1m (3.2ft)

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any particular application. All data relating to suitable uses and descriptions information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The company holds no legal or contractual responsibility for information supplied.

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