

# Technical Data Sheet

## Silicone Rubber Sponge

### SIL15 FDA Compliant (Extrusion Grade)

#### Mechanical Properties

EXTRUSIONS		SIL 15	
Property	Units	Typical Value	Test Method
Density *	kg.m <sup>3</sup> lb.ft <sup>3</sup>	350 21.8	BSENISO 845 ASTM D3574
Hardness **	Shore OO Shore A	50-60 ±5 <7-10	ASTM D2240
Compression Stress 40% strain ***	kPa PSI	78 11.3	BSENISO 3386 part 1, 2
Tensile Strength	MPa PSI	0.45 65	BSENISO 1798 ASTM D412
Elongation to failure	%	140	BSENISO 1798 ASTM D412
Compression Set 50% Compression 24hrs Recovery. 22hrs @ 70°C (158°F)	%	<1	BSENISO 1856
Compression Set 50% Compression 24hrs Recovery. 22hrs @ 100°C (212°F)	%	<1	BSENISO 1856

- ❖ American Food and Drugs Administration (FDA) 21 CFR 177-2600
- ❖ Directive EC 1935/2004
- ❖ FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv)(a)(1)(v) horizontal flammability test
- ❖ Automotive Standard PART 571FMVSS302
- ❖ EU 1935/2004 compliant

- ❖ Platinum cured
- ❖ Smooth and dry surface
- ❖ Well finished edges

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	6.1x10 <sup>-2</sup> W.m <sup>-1</sup> .K <sup>-1</sup>	BS 874 Part 2
Radiation Resistance	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	