

**SEKISUI FOAM AUSTRALIA**

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# TECHNICAL INFORMATION

## TECHNICAL DATA SHEET

### Softlon®

**Description:**

Softlon® is a closed cell, electron beam crosslinked, polyolefin foam with an outer skin. The foam is free of heavy metals, plasticisers and CFCs.

Due to the unique manufacturing process, Softlon® exhibits consistent thickness and density.

Property	Test Method	Units	Typical Value					
<b>Grade</b>			0500	1000	1500	2000	3000	4000
<b>Density</b>	Internal	kg/m <sup>3</sup>	200	100	67	50	33	25
<b>Tensile Strength</b>	JIS K6767							
Longitudinal		kg/cm <sup>2</sup>	26.2	14.6	9.6	6.9	4.4	3.3
Crosswise		kg/cm <sup>2</sup>	18.3	10.4	6.1	4.8	2.6	1.8
<b>Elongation</b>	JIS K6767							
Longitudinal		%	430	370	260	250	250	240
Crosswise		%	360	330	200	215	158	140
<b>Tear Strength</b>	JIS K6767							
Longitudinal		kg/cm	12.5	6.3	4.2	3.2	2.4	2.0
Crosswise		kg/cm	10.4	5.2	3.1	2.1	1.5	1.3
<b>Compression Strength</b>	Internal							
25% deflection		kg/cm <sup>2</sup>	3.3	1.3	0.72	0.54	0.35	0.30
50% deflection		kg/cm <sup>2</sup>	5.7	2.6	1.46	1.30	1.00	0.85
<b>Compression Set</b>	JIS K6767							
25% deflection		% set	3.5	4.0	4.5	5.1	6.5	7.5
50% deflection		% set	6.0	9.2	13.8	15.0	23.0	30.0
<b>Dimenl. Change Heat</b>	70°C, 22h							
Longitudinal		-%	0.54	0.83	1.03	1.43	1.45	1.50
Crosswise		-%	0.10	0.20	0.30	0.40	0.75	0.90
<b>Working Temp Range</b>	Internal	°C	-80 / +100					
<b>Water Absorption</b>	JIS K6767	mg/cm <sup>2</sup>	0.02	0.03	0.04	0.05	0.07	0.09
<b>Vapour Permeability</b>	JIS Z0208	g/m <sup>2</sup> , 24h	1.9	3.3	3.8	4.2	4.6	5.3
<b>Volume Resistivity</b>	JIS K6767	Ω.cm	>10 <sup>18</sup>					
<b>Dielectric Constant</b>	JIS K6767	ε (1 kHz)	1.55	1.56	1.57	1.57	1.58	1.58
<b>Dielectric Loss</b>	JIS K6767	tan δ (1 kHz)	0.001	0.0005	0.0004	0.0004	0.0001	0.0001
<b>Dielectric Strength</b>	JIS K6767	kV/mm	8.0	6.9	5.5	5.1	4.8	4.5



This information on Sekisui Foam International products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.



Recommendations as to methods of post fabrication, application and use of Sekisui Foam International products are based on our experience and knowledge of the characteristics of our products and are given in good faith. As producer of the material we have no control over the application of Sekisui Foam International products and no legal responsibility is accepted for such recommendations. In particular, no responsibility is accepted by us for any system in which Sekisui Foam International products are utilised or for any application.



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