

## TYPICAL PHYSICAL PROPERTIES

### Softlon®

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

Property	Test Method	Units	Typical Value					
Density	Internal	kg/m <sup>3</sup>	200	100	67	50	33	25
Tensile Strength	JIS K6767							
MD		kg/cm <sup>2</sup>	26.2	14.6	9.6	6.9	4.4	3.3
CD		kg/cm <sup>2</sup>	18.3	10.4	6.1	4.8	2.6	1.8
Elongation	JIS K6767							
MD		%	430	370	260	250	250	240
CD		%	360	330	200	215	158	140
Tear Strength	JIS K6767							
MD		kg/cm	12.5	6.3	4.2	3.2	2.4	2.0
CD		kg/cm	10.4	5.2	3.1	2.1	1.5	1.3
Compression Strength	Internal							
25%		kg/cm <sup>2</sup>	3.3	1.3	0.72	0.54	0.35	0.30
50%		kg/cm <sup>2</sup>	5.7	2.6	1.46	1.30	1.00	0.85
Compression Set	JIS K6767							
25% Defl.n		% set	3.5	4.0	4.5	5.1	6.5	7.5
50% Defl.n		% set	6.0	9.2	13.8	15.0	23.0	30.0
Diml Change Heat	70°C, 22HR							
MD		-%	0.54	0.83	1.03	1.43	1.45	1.50
CD		-%	0.10	0.20	0.30	0.40	0.75	0.90
Water Absorption	JIS K6767	mg/cm <sup>2</sup>	0.02	0.03	0.04	0.05	0.07	0.09
Water Vapour Perm	JIS Z0208	g/m <sup>2</sup> ,24h	1.9	3.3	3.8	4.2	4.6	5.3
Operating Temperature (Softlon®)		C <sup>0</sup>	-80 ~ 100					