

TECHNICAL DATA SHEET

Softlon® S

Description:

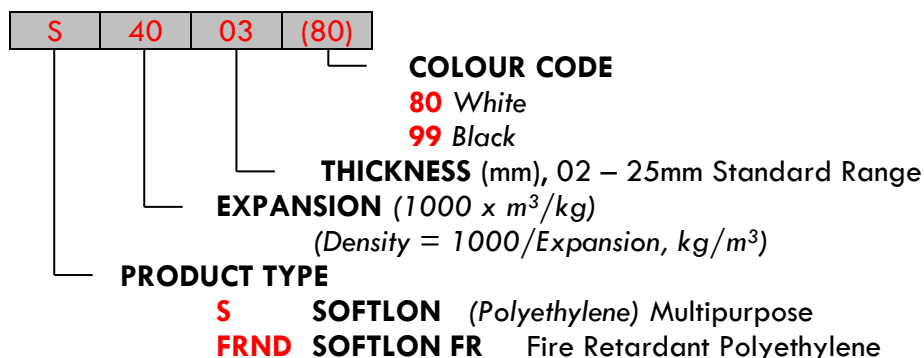
Softlon® S is a flexible closed cell, electron beam crosslinked, polyolefin foam with a smooth outer skin. Due to the unique manufacturing process, Softlon® S exhibits consistent thickness and density, and possesses a fine cell structure.

The foam is free of heavy metals, PVC, plasticisers and CFCs. Softlon® S is compliant with the requirements of the EU Directive 2011/65/EU, commonly known as the Restriction of Hazardous Substances (RoHS) directive.

Property	Test Method	Units	Typical Value					
Grade			0500	1000	1500	2000	3000	4000
Density	Internal	kg/m ³	200	100	67	50	33	25
Tensile Strength	JIS K6767							
Longitudinal		kg/cm ²	25.7	13.2	9.7	7.1	4.7	3.6
Crosswise		kg/cm ²	18.4	8.7	5.7	4.0	2.8	2.2
Elongation	JIS K6767							
Longitudinal		%	570	507	424	350	277	237
Crosswise		%	360	360	315	300	206	198
Tear Strength	JIS K6767							
Longitudinal		kg/cm	15.5	6.9	5.4	3.5	2.9	2.0
Crosswise		kg/cm	12.2	5.2	3.7	2.4	1.7	1.0
Compression Strength	Internal							
25% deflection		kg/cm ²	3.3	0.64	0.60	0.54	0.35	0.30
50% deflection		kg/cm ²	5.7	1.58	1.46	1.31	1.00	0.85
75% deflection		kg/cm ²	17.7	5.12	4.50	3.50	3.25	2.51
Compression Set	JIS K6767							
25% deflection		% set	3.5	4.0	4.5	5.1	7.0	7.5
Dimenl. Change Heat	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
Working Temp Range	Internal	°C	-80 / +100					
Water Absorption	JIS K6767	mg/cm ²	0.02	0.03	0.03	0.05	0.07	0.10
Vapour Permeability	JIS Z0208	10 ⁻¹⁴ kg/m/s/Pa	3.0	5.2	6.0	6.7	7.3	8.3

Nomenclature:

The following table explains the nomenclature of Softlon® physically crosslinked polyethylene foams.



Tolerances:

The following tables list tolerances for width and length of standard Softlon® products:

Width¹ (Sheet)	
Nominal Width	Tolerance
1000mm	-0 / +20mm
1200mm	
1500mm	
¹ Other widths and/or tolerances subject to confirmation.	

Length²	
Nominal Length	Tolerance
Sheets	-0mm / +70mm
Straight Tubes	-0mm / +100mm
Rolls and Coils (≤ 20m length)	-0m / +0.5m
Rolls (> 20m length)	-0% / +5%
² Other lengths and/or tolerances subject to confirmation.	

For thickness and density tolerances, refer to technical datasheets for specific foam grades.

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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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