

TECHNICAL DATA SHEET

Softlon® S

Description:

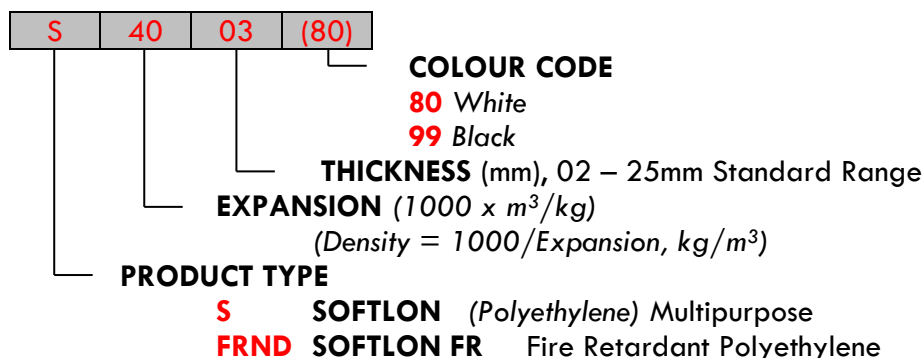
Softlon® S is a flexible closed cell, electron beam crosslinked, polyolefin foam with a smooth outer skin. Due to the unique manufacturing process, Softlon® S exhibits consistent thickness and density, and possesses a fine cell structure.

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 thickness, density and width of standard Softlon® products:

Thickness	
Nominal Thickness	Tolerance¹
2mm	-0.3mm / +0.3mm
3mm	-0.4mm / +0.4mm
4mm	-0.5mm / +0.5mm
5mm	-0.5mm / +0.6mm
6mm	-0.6mm / +0.8mm
8mm	-0.8mm / +1.0mm
10mm	-1.0mm / +1.5mm
12mm	-1.0mm / +1.5mm
15mm	-1.0mm / +2.0mm
20mm	-1.0mm / +2.0mm
25mm	-1.0mm / +2.5mm

¹Other thicknesses and/or tolerances subject to confirmation. When unwinding the roll, especially for low density material, the foam near the core may be compressed due to its own weight. After allowing for relaxation, the foam will recover to original thickness.

Density² (foam only)	
Nominal Density	Tolerance
From 25 – 200 kg/m ³	± 10%

²Applies to the foam core.

Width³ (Sheet)	
Nominal Width	Tolerance
1000mm	-0 / +20mm
1200mm	
1500mm	

³Other widths and/or tolerances subject to confirmation.

THAI SEKISUI FOAM

700/329 Moo 6, Amata Nakorn Industrial Estate
Tumbol Donhua-loh, Amphur Muang
Chonburi 20000 THAILAND

Tel: +66 3821 3219 ~ 26, Fax: +66 3821 3281
Email: info@thaisekisui.co.th, Web: www.thaisekisui.co.th



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.

Softlon and **Thermobreak** – Registered trademarks of Sekisui Chemical Co. Ltd or its subsidiaries.

© Sekisui Pilon Pty Ltd. Date of Publication: August 2016.