TECHNICAL DATA SHEET

Softlon® FR-ND 3000

Description:

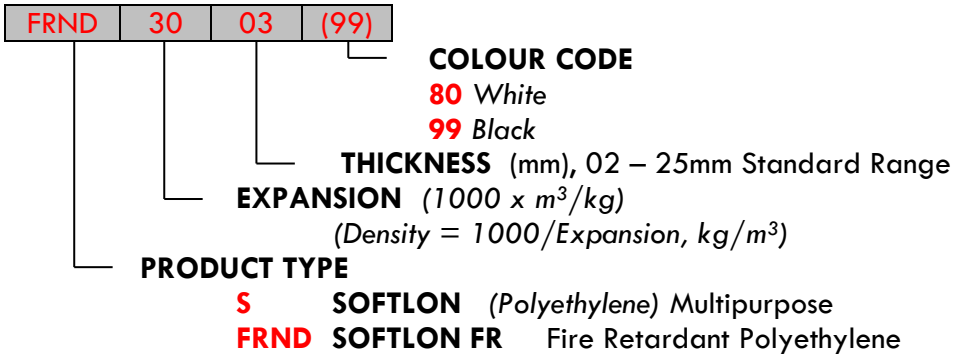
Softlon® FR-ND 3000 is a flexible closed cell, electron beam crosslinked, fire retardant polyolefin foam with a smooth outer skin. Due to the unique manufacturing process, Softlon® FR-ND 3000 exhibits consistent thickness and density, and possesses a fine cell structure.

The foam is free of heavy metals, PVC, plasticisers and CFCs. Softlon® FR-ND 3000 is compliant with the requirements of the EU Directive 2011/65/EU, commonly known as the Restriction of Hazardous Substances (RoHS) directive.

Property	Typical Value	Test Method
Density	33 kg/m³ (nominal)	Internal
Tensile Strength	4.0 kg/cm² (longitudinal) 2.2 kg/cm² (crosswise)	JIS K6767
Elongation	236% (longitudinal) 158% (crosswise)	JIS K6767
Tear Strength	2.1 kg/cm (longitudinal) 1.2 kg/cm (crosswise)	JIS K6767
Compression Strength	0.35 kg/cm² @ 25% 1.00 kg/cm² @ 50% 3.25 kg/cm² @ 75%	Internal
Compression Set	7.0% @ 25% deflection	JIS K6767
Dimensional Change Heat	-1.30% (longitudinal) -0.80% (crosswise)	70°C, 22h
Working Temperature Range	-80 / +100 °C	Internal
Thermal Conductivity	0.034 W/m/°K	ASTM C518
Flammability Properties	Pass	UL94 (HF-1)
Water Absorption	0.07 mg/cm²	JIS K6767
Water Vapour Permeability	7.3 x 10^{-14} kg/m/s/Pa	JIS Z0208

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	**Tolerance[1]**
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
[1]Other 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.	

Density[2] (foam only)	
Nominal Density	**Tolerance**
From 25 – 200 kg/m^3	± 10%
[2]Applies to the foam core.	

Width[3] (Sheet)	
Nominal Width	**Tolerance**
1000mm	-0 / +20mm
1200mm	
1500mm	
[3]Other 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.