

TECHNICAL DATA SHEET

Softlon® OPC FR-ND 4000

Description:

Softlon® OPC FR-ND is a physically crosslinked fire retardant polyolefin foam with superior softness and sound absorption properties. The foam is free of heavy metals, PVC, plasticisers and CFCs. Softlon® OPC FR-ND 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	25 kg/m ³ (nominal)	Internal
Tensile Strength	3.3 kg/cm ² (longitudinal) 1.7 kg/cm ² (crosswise)	JIS K6767
Elongation	130% (longitudinal) 110% (crosswise)	JIS K6767
Tear Strength	1.8 kg/cm (longitudinal) 1.0 kg/cm (crosswise)	JIS K6767
Compression Strength	0.01 kg/cm ² @ 25% deflection 0.02 kg/cm ² @ 50% deflection 0.05 kg/cm ² @ 75% deflection	Internal
Compression Set	3.1% @ 25% deflection	JIS K6767
Dimensional Change Heat	-0.68% (longitudinal) -2.63% (crosswise)	70°C, 22h
Working Temperature Range	-80 / +100 °C	Internal
Noise Reduction Coefficient	0.20 @ 7mm thickness 0.40 @ 10mm thickness	ISO 354
Thermal Conductivity	0.034 W/m/°K @ 23 °C mean temperature	ASTM C518
Flammability Properties	Pass Pass	UL94 (HF-1) FMVSS 302
Water Absorption	2.07 mg/cm ²	JIS K6767
Water Vapour Permeability	1.7 x 10 ⁻¹³ kg/m/s/Pa	ASTM E96

Nomenclature:

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



Tolerances:

The following tables list tolerances for thickness, density and width of standard Softlon® OPC 4000 products made at Thai Sekisui Foam:

Thickness	
Nominal Thickness	Tolerance¹
3mm	2.6 – 3.4mm
5mm	4.5 – 5.6mm
7mm	6.2 – 8.0mm
10mm	9.0 – 11.5mm
15mm	14.0 – 17.0mm
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.	

Density² (foam only)	
Nominal Density	Tolerance
25 kg/m ³	22.72 – 27.77 kg/m ³
² Applies to the foam core.	

Width³ (Sheet)	
Nominal Width	Tolerance
1000mm	-0 / +20mm
³ Other widths and/or tolerances subject to confirmation.	

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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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