

TECHNICAL DATA SHEET

Softlon® OPC

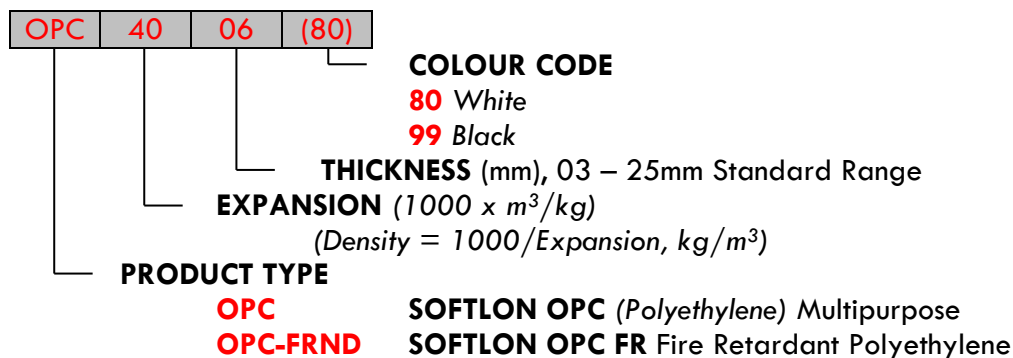
Description:

Softlon® OPC is a physically crosslinked polyolefin foam with superior softness and sound absorption properties. The foam is free of heavy metals, PVC, plasticisers and CFCs. Softlon® OPC 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			2000	3000	4000
Density	Internal	kg/m ³	50	33	25
Tensile Strength	JIS K6767				
Longitudinal		kg/cm ²	6.5	3.8	3.3
Crosswise		kg/cm ²	3.8	2.1	1.7
Elongation	JIS K6767				
Longitudinal		%	290	190	130
Crosswise		%	240	160	110
Tear Strength	JIS K6767				
Longitudinal		kg/cm	4.0	2.2	1.8
Crosswise		kg/cm	3.3	1.5	1.0
Compression Strength	Internal				
25% deflection		kg/cm ²	0.26	0.07	0.01
50% deflection		kg/cm ²	0.71	0.26	0.02
70% deflection		kg/cm ²	2.29	0.92	0.05
Compression Set	JIS K6767				
25% deflection		% set	2.4	2.2	3.1
Dimensional Change Heat	70°C, 22h				
Longitudinal		-%	0.57	0.75	0.68
Crosswise		-%	2.66	1.71	2.63
Noise Reduction Coefficient	ISO 354				
6mm thickness		[-]	-	0.10	0.15
15mm thickness		[-]	-	-	0.45
Working Temp Range	Internal	°C	-80 / +100		
Water Absorption	JIS K6767	mg/cm ²	0.14	0.31	2.07
Thermal Conductivity	ASTM C518	W/m.°K, 23°C	-	-	0.034

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 products:

Thickness	
Nominal Thickness	Tolerance¹
3mm	-0.4mm / +0.4mm
5mm	-0.5mm / +0.6mm
7mm	-0.8mm / +1.0mm
10mm	-1.0mm / +1.5mm
15mm	-1.0mm / +2.0mm
20mm	-1.0mm / +2.0mm

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 – 50 kg/m ³	± 10%

²Applies to the foam core.

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

³Other 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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