

SOFTLON[®] OPC

NEW GENERATION OPEN CELL FOAM

Softlon[®] OPC is a new generation partially open cell polyolefin foam manufactured in continuous rolls.

SEKISUI

FOAM
INTERNATIONAL
Global Foam Solutions

PHYSICALLY
CROSSLINKED
SEKISUI TECHNOLOGY

Key Features of Softlon® OPC



Unique Technology

Softlon® OPC is a partially open cell foam made from Sekisui's unique physically crosslinked foam technology.

Unlike conventional open cell PE foams, Softlon OPC is made without crushing the cell structure and skiving the surface. This allows Softlon OPC to provide superior physical properties associated with a uniform cell structure whilst maintaining a smooth skin to enhance aesthetic value.

Outstanding features

- Extremely soft and flexible
- Excellent sound absorption
- Available in continuous rolls for easy lamination & fabrication
- Easily compressible with excellent recovery
- Outstanding thermal conductivity
- Durable and chemically resistant
- Compresses to form an airtight seal
- Wide operating temperature range
- Can be Thermo-formed
- Fire resistant grade available
- Available in a range of thicknesses and densities



Softlon® OPC Availability



Thickness Availability	3, 5, 7, 8, 10, 15 and 20mm
Densities	50 kg/m ³ , 33 kg/m ³ and 25 kg/m ³
Grades	<ul style="list-style-type: none">• S: Standard• FR-ND: Flame Retardant
Colours	S Type - White (80) and Black (99), FR-ND Type Gray (90)
Surface Options	<ul style="list-style-type: none">• With Skin on both sides• One side skived (SK grade)
Adhesive Coating	Available on request

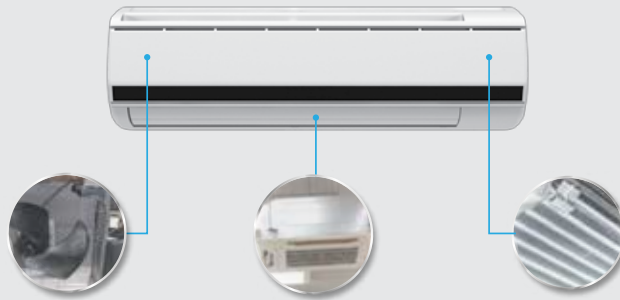
*Available in sheets and rolls

**Other grades, colour and expansion available on request



Applications for Softlon® OPC

Air Conditioning Applications



Automotive Applications



Construction Applications



Whitegoods Applications



TECHNICAL DATA SHEET

Softlon® OPC

Description: | Softlon® OPC is an open cell, physically crosslinked polyolefin foam with superior softness and sound absorption properties. The foam is free of heavy metals, plasticisers and CFCs.

Product Grade			2000 OPC	3000 OPC	4000 OPC
Property	Test Method	Units	Typical Value		
Expansion	Internal	cc/gr	20 times	30 times	40 times
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				
6 mm thickness		[-]	-	0.10	0.15
15 mm 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

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