

SOFTLON[®] OPC

NEW GENERATION OPEN CELL FOAM



Softlon[®] OPC is a new generation open cell physically crosslinked polyolefin foam

Key Features of Softlon® OPC

Unique Technology, outstanding features

Softlon® OPC is made from Sekisui's unique physically crosslinked foam technology which results in foam that feels softer and more flexible.

Unlike conventional open cell PE foams, Softlon OPC is made without crushing the cell structure and skiving the surface. Crushing of the cell structure affects the physical properties of the foam.

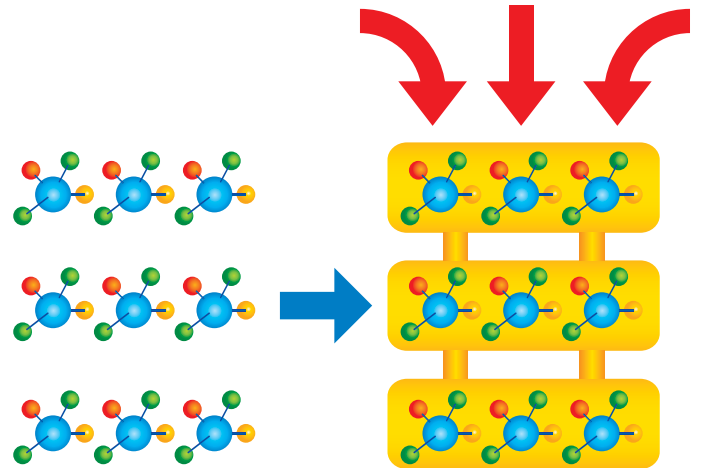
Softlon OPC technology ensures the foam retains majority of its original cell structure, and key physical properties.

Its smooth skin surface enhances its aesthetic value.

Key Features and properties of Softlon OPC

- Excellent softness and flexibility
- Excellent sound absorption characteristics
- Superior compression resistance
- Better insulation performance
- Low water absorption
- Good weatherability and chemical resistance
- Aesthetically better due to intact skin

PHYSICALLY
C R O S S L I N K E D
SEKISUI TECHNOLOGY



Softlon® OPC Availability

Thickness Availability 3, 5, 7, 8, 10, 15 and 20mm

Grade Availability S: Standard Type FR-ND: Flame Retardant Type

Colour Availability S Type - White (80) and Black (99), FR-ND Type Gray (90)

Expansion Availability (Density) 20, 30 and 40 times (50 kg/m³, 33 kg/m³ and 25 kg/m³)

Material Roll Size T x W1000mm x L30M to 150M depending on thicknesses in Roll (A sheet material can be available on request).

Surface Texture 1. With Skin on both side
2. One side skived

Adhesive Coating Available on request

Other grades, colour and expansion can be available on request

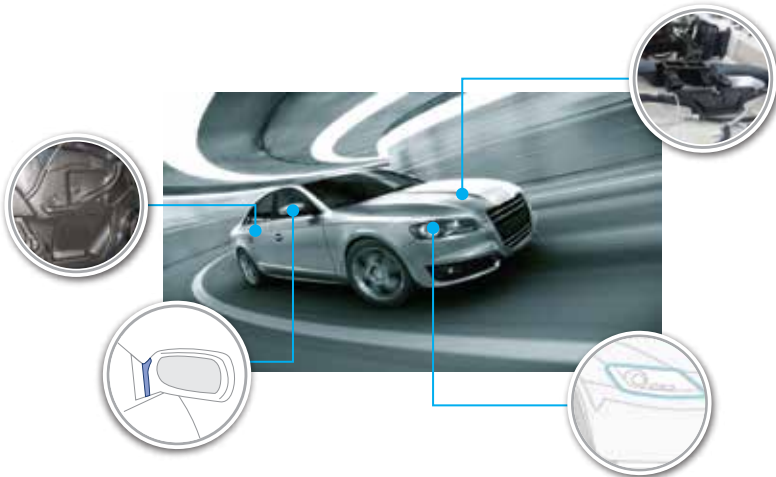


Applications for Softlon OPC

Air Conditioning Applications



Automotive Applications



Construction 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. ^o K, 23°C	-	-	0.034

SEKISUI

FOAM
INTERNATIONAL
Global Foam Solutions



Australian Plant

1-5 Parraweena Rd, PO Box 2898,
Taren Point NSW 2229 Australia
Tel: +61 2 9525 9880
Fax: +61 2 9525 8004
E-mail: info@sekisuifoam.com.au
Web: www.sekisuifoam.com.au

Thailand Plant

700/329 Moo 6, Amata Nakorn Industrial Estate,
Tumbol Donhua-loh, Amphur Muang Chonburi 20000
Tel: +66 (0) 3821 3219 - 26
Fax: +66 (0) 3821 3281
E-mail: info@thaisekisui.co.th
Web: www.thaisekisui.co.th