

SOFTLON[®] OPC

NEW GENERATION OPEN CELL FOAM



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

SEKISUI

FOAM
INTERNATIONAL
Global Foam Solutions

PHYSICALLY
CROSSLINKED
SEKISUI TECHNOLOGY

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.

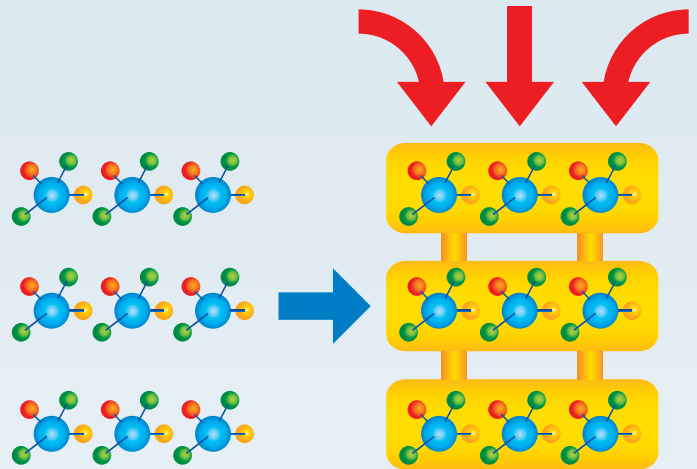
Unlike conventional open cell PE foams, Softlon OPC is made without crushing the cell structure and skiving the surface. Crushing of the cell structure affects the physical properties of the foam.

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



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/m ³ , 33 kg/m ³ and 25 kg/m ³) |
| 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

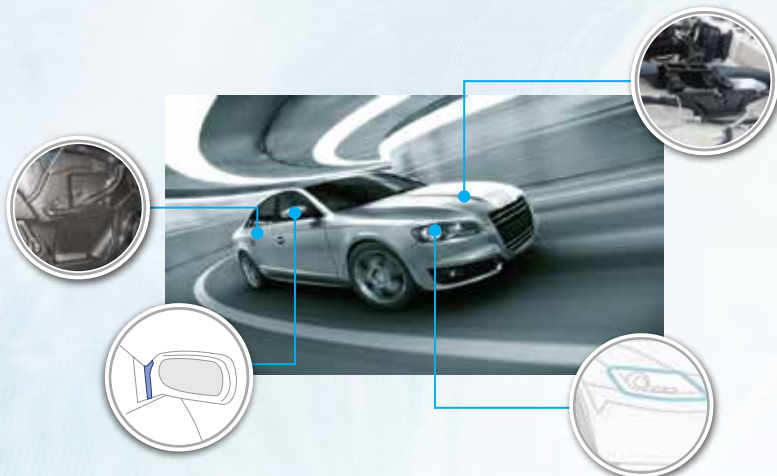


Applications for Softlon OPC

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.°K, 23°C | - | - | 0.034 |

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