

SEKISUI

FOAM
INTERNATIONAL
Global Foam Solutions



***OEM* INSULATION SOLUTIONS**



PHYSICALLY
CROSSLINKED
SEKISUI TECHNOLOGY

The World's Leading Polyolefin Foam Manufacturer

SEKISUI

Sekisui Chemical is a global multinational company headquartered in Japan. It employs over 27,000 people globally and has operations in more than 21 countries.

Sekisui invented and commercialised polyolefin foam in 1967. It is now the largest polyolefin foam manufacturer in the world operating 9 foam plants located in Europe, USA, Thailand, Japan, Korea, China and Australia.



Sekisui's unique physically crosslinking technology results in even, fine cell structure foams that offer superior physical properties and meet international fire and smoke standards.

Wide Range of products for Thermal, Acoustic and Sealing applications for OEMs.

Sekisui Foam International offers a wide range of closed cell and open cell products and composites .

From simple sealing applications to demanding HVAC and Railway applications that require excellent thermal and acoustic performance as well as meeting fire and smoke testing to the most demanding standards.

Our products can be processed through conventional fabrication processes such as CNC cutting, press cutting and water jet cutting. They can be heat moulded and CNC routed providing endless solutions to OEM needs.

- Lightweight and very durable.
- Easy to cut or skive.
- Outstanding thermal properties.
- Outstanding acoustic properties.
- Wide operating temperature range.
- Available in a range of thicknesses and densities in sheets, rolls & tubes.
- Available with factory applied pressure sensitive adhesive (PSA).
- Available in open cell grade for extra sound absorption & softness.

Thermal Insulation



Closed cell physically crosslinked polyolefin foam laminated with reinforced aluminium foil and adhesive backing.

Thermobreak® is widely recognized as the global leader in polyolefin insulation and provides superior energy saving performance, fast and simple installation, and trouble-free operation in a variety of environments.

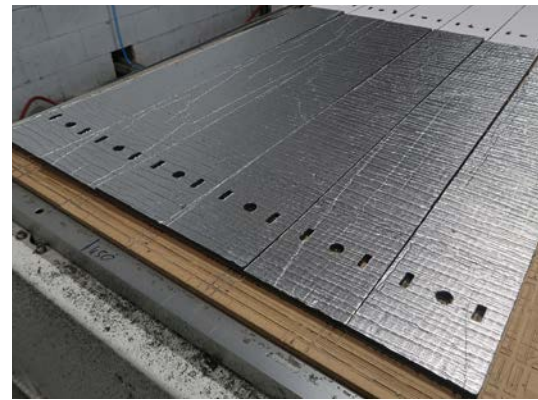
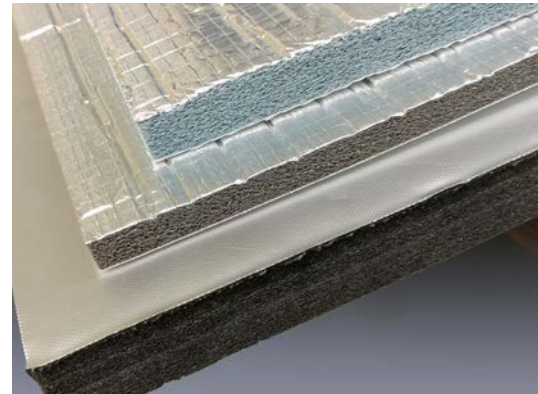
Thermobreak is widely used by OEMs due to its outstanding features including:

- Lower thermal conductivity than any other flexible foam insulation material.
- Almost zero vapor permeability.
- Easy to fabricate using conventional equipment.
- Fibre free.
- Lightweight and very durable.
- Very low water absorption.
- Available in rolls or sheets with optional adhesive backing.
- Meets ASTM E84 (25/50), BS 476 Class 0, Euroclass B-s2, d0, FM Approved, UL Listed.
- Meet all major Railway and Bus Fire and Smoke Standards including NFPA 130, EN 45455-1 (HL3), BS 8653.

Applications

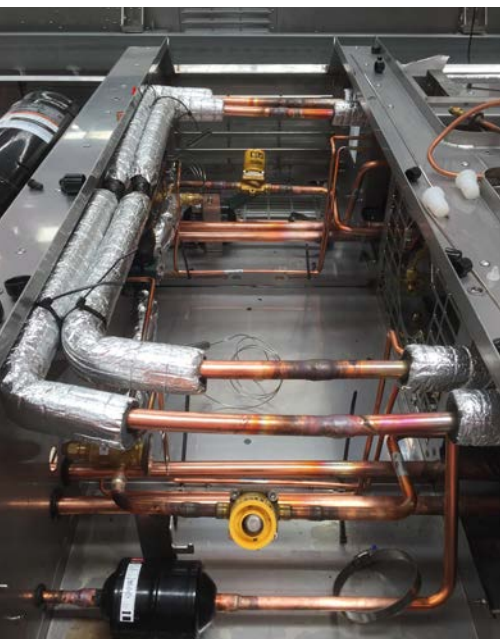
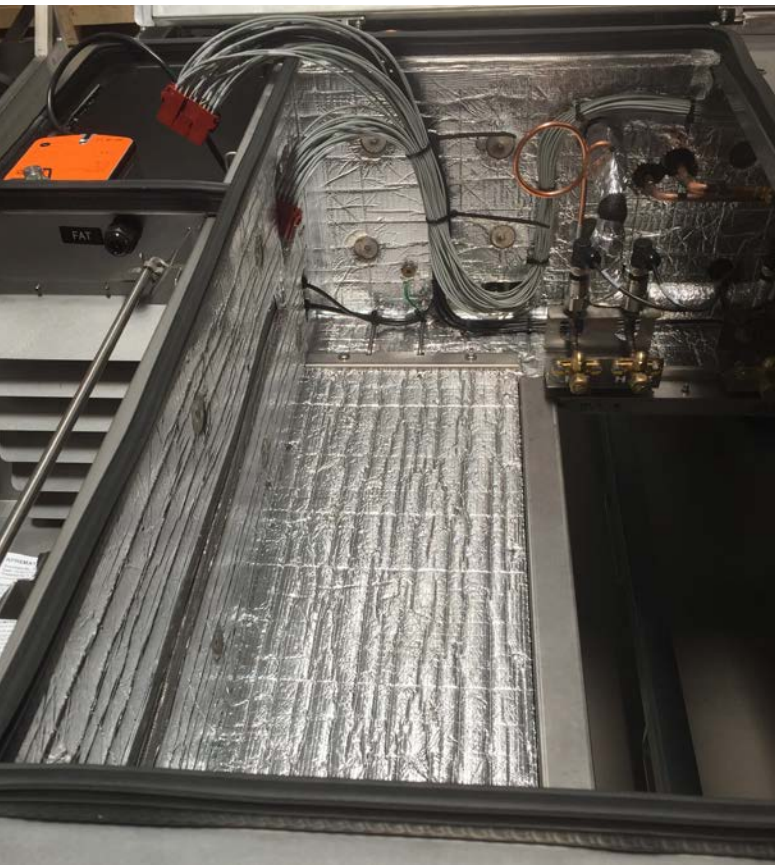
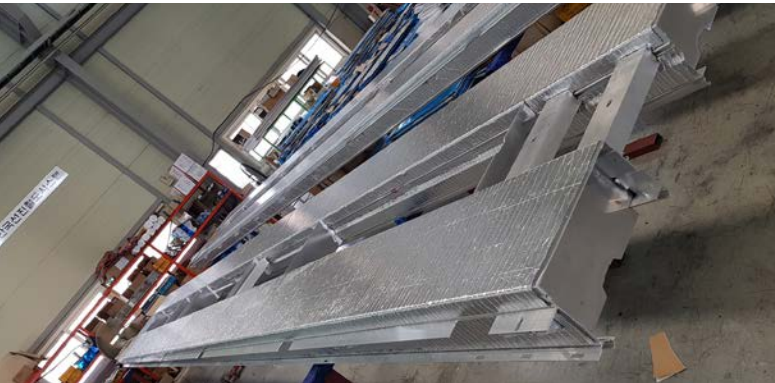
Thermobreak is a proven performer in a variety of environments and applications including:

- HVAC insulation including AC units, ducts and drip trays.
- Transit vehicle insulation for HVAC and body.
- Bus thermal systems components.
- Appliance components.



Thermal Insulation

THERMOBREAK®
Thermal & Acoustic Insulation



Thermo-Acoustic Insulation

THERMOBREAK® AcoustiPlus

Thermobreak Acoustiplus is a partially open cell foam developed by Sekisui using micro-perforation (MPF) technology. The resulting material offers excellent acoustic properties without compromising thermal properties.

Unlike conventional open cell foams, MPF technology offers product with excellent sound absorbing and thermal properties, with ***extremely low water absorbance***.

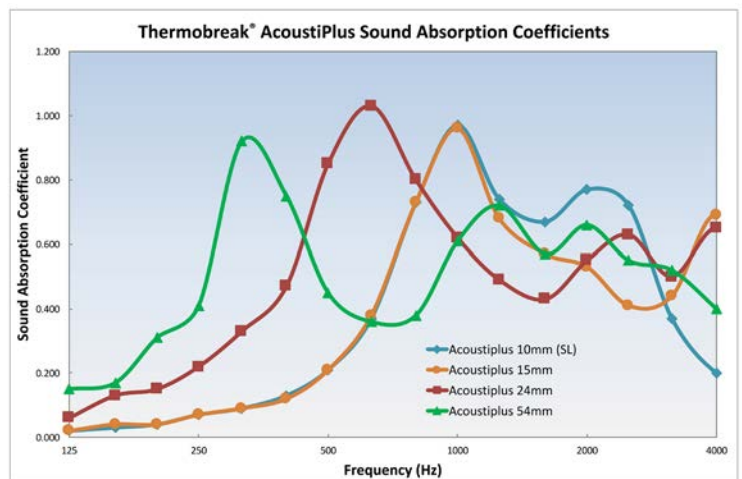
Thermobreak Acoustiplus comes standard with aluminium foil facing and is available with optional pressure sensitive adhesive (PSA) to suit a wide variety of applications.



- Meets ASTM E84 (25/50) & BS 476 fire Standards.
- Extremely low water absorbance (<3%).
- Fibre Free.
- Excellent sound absorbance at low thicknesses thus ideal for equipment manufacturers.
- Excellent thermal performance.

Applications

- HVAC insulation including AC units.
- Whitegoods/Appliance components.
- Transit vehicle acoustic requirement areas.



Acoustic Insulation and Seals

SOFTLON[®] OPC *NEW GENERATION OPEN CELL FOAM*

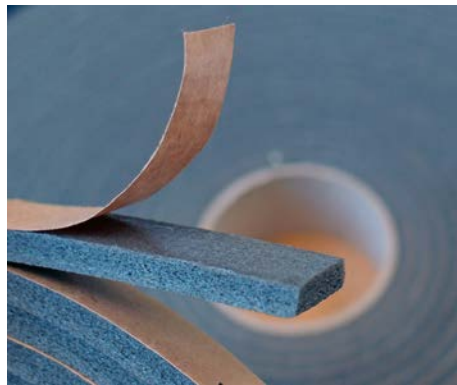
Softlon OPC is a partially open cell, physically crosslinked polyolefin foam which feels softer and is very flexible. Unlike conventional polyolefin open cell foams where cells are crushed, Softlon OPC is made using Sekisui's MPF technology thus minimising water absorption and maintaining thermal performance.

- High compression and recovery characteristics.
- Very low water absorption.
- Does not breakdown with moisture.
- Excellent sound absorption.
- Can be thermoformed.
- Available in rolls and sheets with optional factory applied adhesives.



Applications

- HVAC insulation including AC units.
- Whitegoods/Appliance components.
- Transit vehicle acoustic requirement areas.
- Seals and gaskets.



OEM Flexible foam and tube solutions

SOFTLON® FR TUBE

Softlon FR Tube is a closed cell flexible tube available in a wide variety of common copper sizes. The embossed film on the surface provides additional protection from surface damage during installation or service.

- Closed cell structure with embossed film facing.
- Excellent thermal performance.
- Available in all common copper pipe sizes.
- Meets ASTM E84 (25/50).
- UL94 – HF1.



Softlon®

Softlon is a closed-cell, physically cross-linked polyolefin foam offering aesthetic appeal as well as an outstanding range of performance characteristics.

- The market leader in closed cell polyolefin foams.
- Available in rolls and sheets in a wide range of thicknesses and densities.
- Very easy to cut using conventional equipment such as slitter, CNC, Stamping and water jet equipment.
- Smooth surface and consistent density.
- Thermoformable.





Thermobreak® is a registered trademark of SekisuiChemicalCo.Ltd. or its subsidiaries.

Australian Plant

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

Thailand Plant

700/379 Moo 6, Tumbol Donhua-Ioh,
Amphur Muang Chonburi 20000
Tel: +66 38 213219~26
Email: info@thaisekisui.co.th
Web: www.thermobreak.com

