

SCF (Super Clean Foam)

## SCF400/SCF401/SCF402/SCF403/ SCF404/SCF406/SCF408/SCF450

### Outline









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SCF400 series are polypropylene foam materials with or without adhesive, which can be used as dust-proof, buffer, and shock absorber materials.

Their application is mainly for display gasket of electric appliances, communication equipments and other electronic equipments.

### Construction

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◆ SCF400		← Polypropylene foam
◆ SCF401		← Liner ← Acrylic adhesive (Backing: PET #50) ← Polypropylene foam
◆ SCF402		← Liner ← Acrylic adhesive (Backing: PET #25) ← Polypropylene foam
◆ SCF403		← Liner ← Acrylic adhesive (Backing: PET #100) ← Polypropylene foam
◆ SCF404		← Liner ← Acrylic adhesive (Backing: Nonwoven cloth) ← Polypropylene foam
◆ SCF406		← Liner ← Acrylic adhesive (Backing: PET #4) ← Polypropylene foam
◆ SCF408		← Liner ← Acrylic adhesive (Backing: PET #12) ← Polypropylene foam
◆ SCF450		← PET #50(Black) ← Acrylic adhesive ← Polypropylene foam

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## Features

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- The environment impact material is not used.
- They have thin thickness(0.3mm~), easy to use in narrow space.
- Thanks to their low compression stress, they will not deform the structures after application.
- They show excellent conformability to gaps with bumps or curved surfaces.
- They have almost no impurities, which might contaminate the equipments
- Due to the stiffness secured by their unique micro-cell structure, they show excellent process ability and workability.

## Application

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- Electric appliances, electronic equipments: Dust-proof display gasket and lens buffer for digital camera and digital video recorder.
- Communication equipment: Dust-proof display gasket and camera lens buffer for mobile phone.

## Standard Size

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Table-1

Thickness (mm)	Width (mm)	Length (M)
0.3 · 0.4	500 only SCF406 : 480	100

\*The thickness is only foam's thickness; the combined should add the thickness of each adhesive tape.

\*For other sizes, please contact us.

## Properties

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- Properties of Foam
  - (1) General Properties

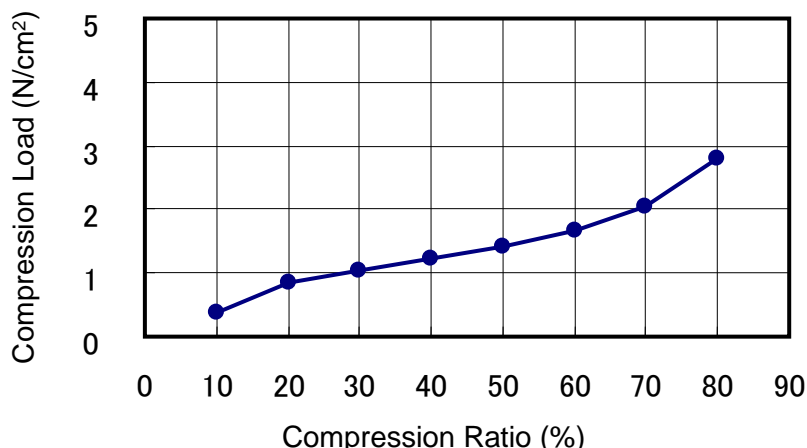
Table -2

Property	Unit	Values	Test method
Density	g/cm <sup>3</sup>	0.045	JIS K 6767
50% Compression Load	N/cm <sup>2</sup>	1.4	

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## (2) Compression Ratio vs. Compression Load



## (3) Out gassing

◇ Result of analysis of generated organic gases

Table -3

	Unit	Toluene	Others	Total
100°C x 60min	ng/cm <sup>2</sup>	<0.28	0.80	0.80

Toluene conversion value

◇ Result of analysis of generated inorganic gases

Table -4

	Unit	Cl <sup>-</sup>	NO <sub>2</sub> <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	PO <sub>4</sub> <sup>3-</sup>	SO <sub>4</sub> <sup>2-</sup>	NH <sub>4</sub> <sup>+</sup>
100°C x 60min	ng/cm <sup>2</sup>	<13	<13	<13	<13	<13	24

◇ Result of analysis of hot water extraction ion components

Table -5

	Unit	Cl <sup>-</sup>	NO <sub>2</sub> <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	PO <sub>4</sub> <sup>3-</sup>	SO <sub>4</sub> <sup>2-</sup>	NH <sub>4</sub> <sup>+</sup>
100°C x 120min	ng/cm <sup>2</sup>	70	<5.0	<5.0	<5.0	<5.0	7.1

\* < : Under the limit of detection

## ● Properties of Adhesive

Table -6

Item	Unit	Substrate	Adhesive strength (90°peeling)
SCF401	N/20mm	SUS304	8.16
SCF402			6.50
SCF403			8.63
SCF404			11.12
SCF406			5.77
SCF408			5.55

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## **Precautions**

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- Place the products longitudinally to avoid deformation.
- Keep the products away from high temperatures and humidity, and store them in a dark cool place avoiding direct sunlight.
- As the adhesive is pressure-sensitive, attention should be paid to the lamination pressure.
- You should perform the test yourself to make sure the product is capable of the application.

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