

SCF (Super Clean Foam)

## SCF200/SCF201/SCF202/SCF203/ SCF204/SCF206/SCF220/SCF250

### Outline







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SCF200 series are polypropylene foam materials with or without adhesive, which can be used as dust-proof, buffer, shock absorber, and light shield materials.

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

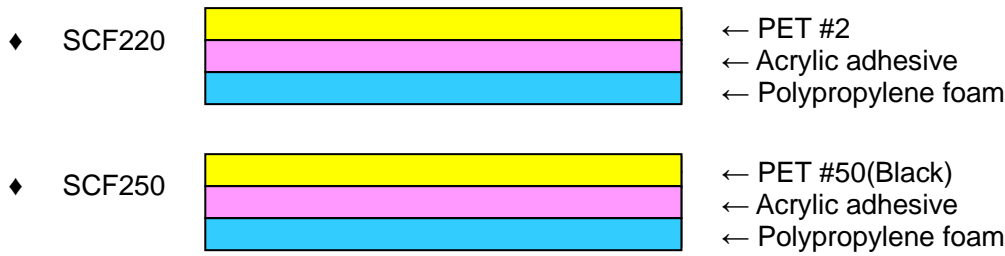
### Construction

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◆ SCF200		← Polypropylene foam
◆ SCF201		← Liner ← Acrylic adhesive (Backing: PET #50) ← Polypropylene foam
◆ SCF202		← Liner ← Acrylic adhesive (Backing: PET #25) ← Polypropylene foam
◆ SCF203		← Liner ← Acrylic adhesive (Backing: PET #100) ← Polypropylene foam
◆ SCF204		← Liner ← Acrylic adhesive (Backing : Nonwoven cloth) ← Polypropylene foam
◆ SCF206		← Liner ← Acrylic adhesive (Backing: PET #4) ← Polypropylene foam

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## Features

- The environment impact material is not used.
- Easy to compress.
- 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

- 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

Table-1

Thickness (mm)	Width (mm)	Length (M)
0.5~1.5 Received in unit of 0.1mm	500 only SCF206 : 480 SCF120 : 450	100

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

\*For other sizes, please contact us.

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## Properties

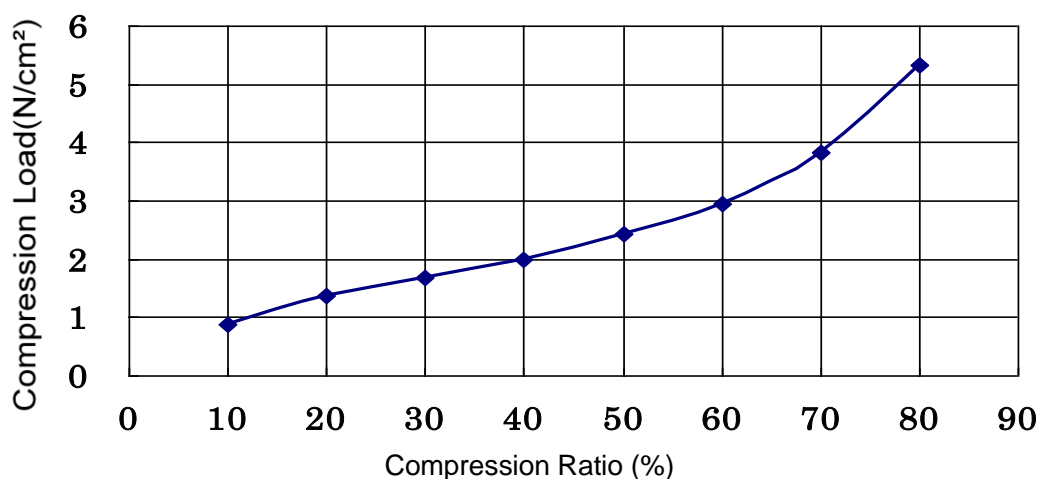
### ● Properties of Foam

#### (1) General Properties

Table -2

Property	Unit	Values	Test method
Density	g/cm <sup>3</sup>	0.030	JIS K 6767
50% Compression Load	N/cm <sup>2</sup>	2.4	

#### (2) Compression Ratio vs. Compression Load



#### (3) Dimension Stability

Table -3

		Storage condition (70°C)		
		170hr	340hr	720hr
SCF200	MD	-0.2%	-0.8%	-0.6%
	TD	0.8%	0.8%	0.8%

Change of dimension ratio (%)=(A-B)/A x 100  
 A=initial dimension  
 B=dimension after storage

#### (4) Out gassing

◇ Result of analysis of generated organic gases

Table -4

	Unit	Toluene	Others	Total
100°C x 60min	ng/cm <sup>2</sup>	0.48	4.9	5.4

Toluene conversion value

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◇ Result of analysis of generated inorganic gases

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 60min	ng/cm <sup>2</sup>	<4.9	<8.9	<13	<29	<13	<4.4

◇ Result of analysis of hot water extraction ion components

Table -6

	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>	35	<8.9	<13	<29	<13	1.8

\*< : Under the limit of detection

● Properties of Adhesive

Table -7

Item	Unit	Substrate	Adhesive strength (90°peeling)
SCF201	N/15mm	SUS304	7.62
SCF202			5.39
SCF203			6.24
SCF204			8.08
SCF206			5.18

## Cautions

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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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