

SCF (Super Clean Foam)







# SCF100/SCF101/SCF102/SCF103/ SCF104/SCF106/SCF120/SCF150

## Outline

SCF100 series are polypropylene foam materials with or without adhesive, which can be used as dust-proof, buffer, shock absorber, and light shield materials.

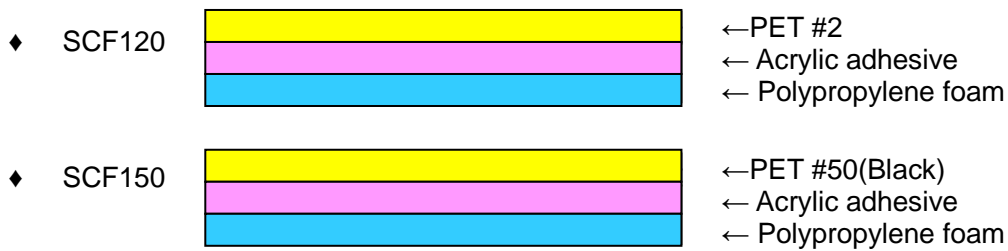
Their application is mainly for display gasket of electric appliances, communication equipments and other electronic equipments.

## Construction

◆ SCF100		← Polypropylene foam
◆ SCF101		← Liner ← Acrylic adhesive (Backing: PET #50) ← Polypropylene foam
◆ SCF102		← Liner ← Acrylic adhesive (Backing: PET #25) ← Polypropylene foam
◆ SCF103		← Liner ← Acrylic adhesive (Backing: PET #100) ← Polypropylene foam
◆ SCF104		← Liner ← Acrylic adhesive (Backing: Nonwoven cloth) ← Polypropylene foam
◆ SCF106		← 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)
0.5~1.0 Received in unit of 0.1mm	500 only SCF106 : 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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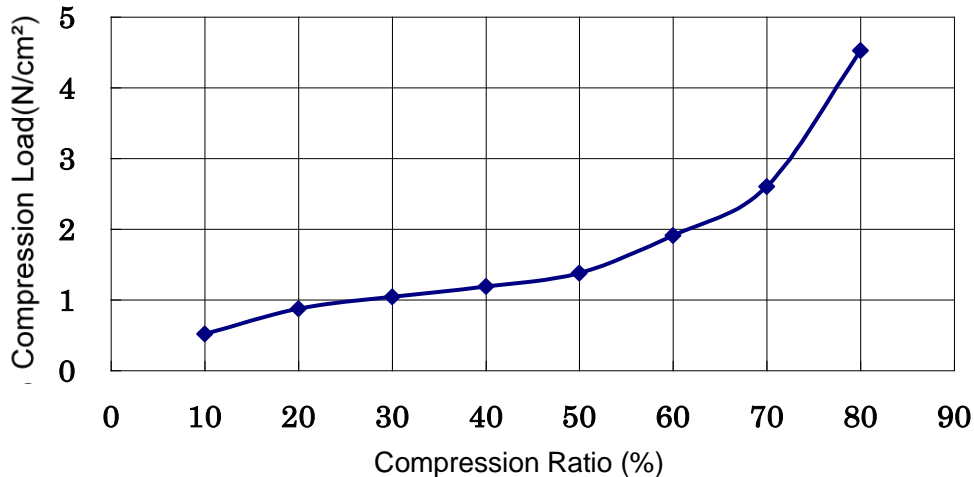
## Properties

### ● Properties of Foam

#### (1) General Properties

Table -2

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



#### (3) Dimension Stability

Table -3

		Storage condition (85°C)		
		250hr	500hr	1000hr
SCF100	MD	-0.4%	-0.7%	-0.2%
	TD	-0.4%	-0.6%	-0.1%

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>	1.8	3.0	4.8

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>	<4.8	<6.9	<11	<29	<12	<1.4

◇ 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>	33	<8.4	<11	<27	<13	2.7

\*< : Under the limit of detection

● Properties of Adhesive

Table -7

Item	Unit	Substrate	Adhesive strength (90°peeling)
SCF101	N/15mm	SUS304	4.82
SCF102			3.84
SCF103			3.89
SCF104			7.08
SCF106			4.83

## 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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