

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.

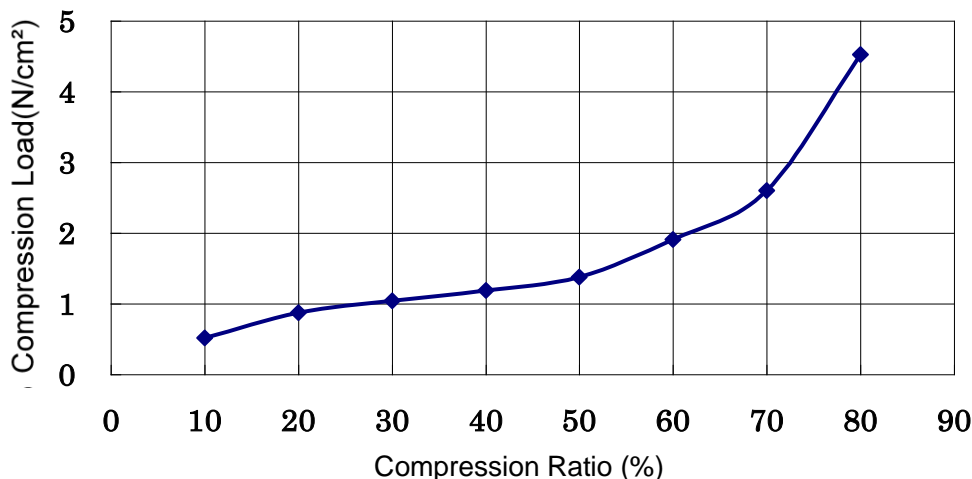
Properties

● Properties of Foam

(1) General Properties

Table -2

Property	Unit	Values	Test method
Density	g/cm ³	0.045	JIS K 6767
50% Compression Load	N/cm ²	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 ²	1.8	3.0	4.8

Toluene conversion value

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◇ Result of analysis of generated inorganic gases

Table -5

	Unit	Cl ⁻	NO ₂ ⁻	NO ₃ ⁻	PO ₄ ³⁻	SO ₄ ²⁻	NH ₄ ⁺
100°C x 60min	ng/cm ²	<4.8	<6.9	<11	<29	<12	<1.4

◇ Result of analysis of hot water extraction ion components

Table -6

	Unit	Cl ⁻	NO ₂ ⁻	NO ₃ ⁻	PO ₄ ³⁻	SO ₄ ²⁻	NH ₄ ⁺
100°C x 120min	ng/ cm ²	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

- 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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