SCF（Super Clean Foam）

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

Outline

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

♦ 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

Features

- 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

- 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)
0.3・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.

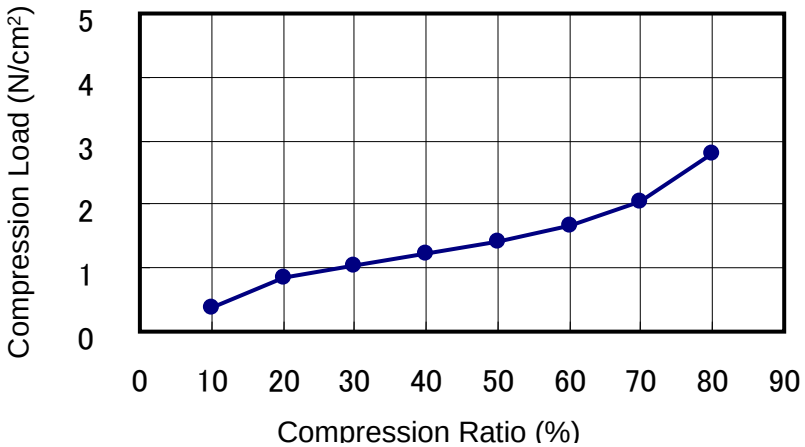
Properties

- 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	

(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^2	<0.28	0.80	0.80

Toluene conversion value

◊ Result of analysis of generated inorganic gases

Table -4

	Unit	Cl^-	NO_2^-	NO_3^-	PO_4^{3-}	SO_4^{2-}	NH_4^+
100°C x 60min	ng/cm^2	<13	<13	<13	<13	<13	24

◊ Result of analysis of hot water extraction ion components

Table -5

	Unit	Cl^-	NO_2^-	NO_3^-	PO_4^{3-}	SO_4^{2-}	NH_4^+
100°C x 120min	ng/ cm^2	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

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.