

SCF (Super Clean Foam)

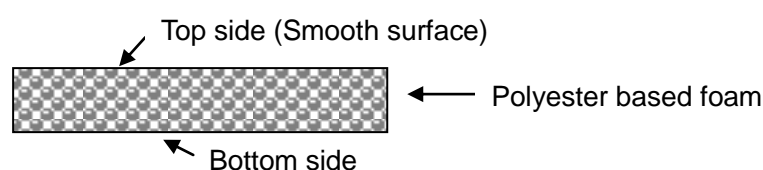
SCF T100

Outline

SCF T100 is an improved super clean foam against existing SCF series in a speed of repulsion, rebound property. With those properties, it can be used as an excellent dust-proof foam.

Construction

◆ SCF T100



Features

- Fast repulsion speed and excellent rebound property even under high temperature.
 - This provides you more freedom in a design by its super rebound performance and wide selection of compression ratio.
- Excellent tensile strength
 - A suitable material for narrow and small converting parts
- With very low compression load, it can be compressed.
 - Easy to follow small gap and tight curve without shape change.

Application

- LCD/OELD Gasket, shock absorber, sound-proof foam of speaker/microphone of Mobile phone, Smartphone and Tablet PC
- Shock absorber for TV LCD module
- Shade material for Digital Still Camera lens

Standard Size

Thickness (mm)	Width (mm)	Length (M)
0.5 ~ 1.0 Received in unit of 0.1mm	250	100

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General properties

● Properties of foam

(1) General Properties

Property	Unit	T100	Conventional SCF
Density	g/cm ³	0.075	0.050
Load for 50%Compression	N/cm ²	2.3	1.8
Tensile strength	MPa	1.5	0.64
Elongation at break	%	245	83

(2) Recovery ratio after compression

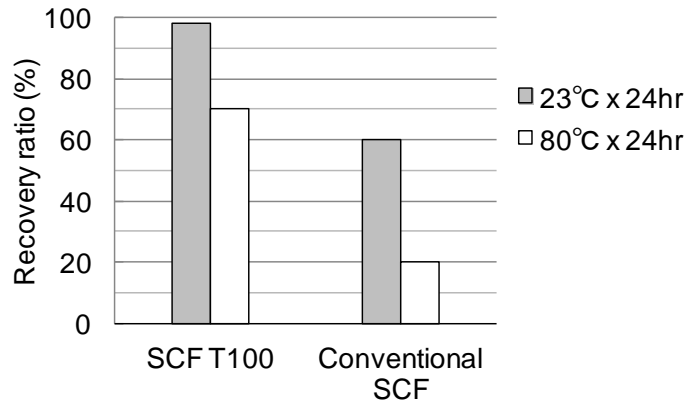
Test Condition

Compression ratio: 80%

Stored temp and Loading time : 23 degree C × 24hrs, 80 degree C × 24hrs

Time after unloading : 24hrs

Result :

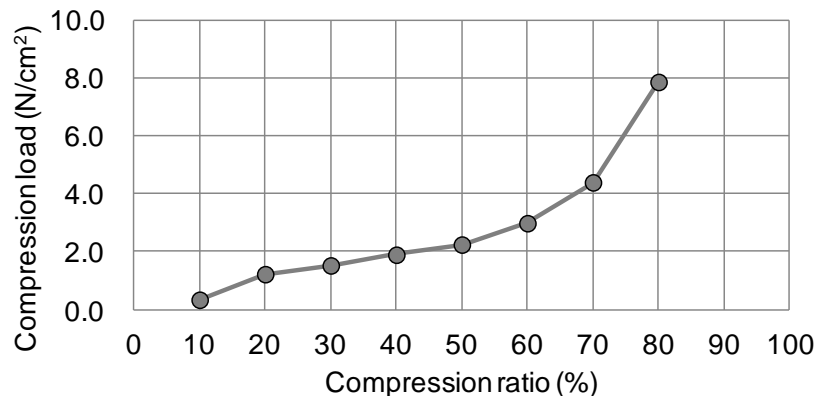


$$\text{Recovery ratio}(\%) = (\text{thickness after unloading} / \text{initial thickness}) \times 100$$

(3) Compression Ratio vs. Compression Load

Test method: Compression speed 10mm/min

Measured amount of load after compression for 10 seconds



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(4) Out gassing

Same as other SCFs, there are few gasses generated after 100 degree C x 60min and are few ions extracted after immersion in hot water at 100 degree C for 120min.

Cautions

- Place the products longitudinally to avoid deformation.
- Keep the products away from high temperatures and humidity, and store them in a dark and cool place without direct sun light.
- Make sure the products if they are capable of your application yourself.

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