

SCF (Super Clean Foam)

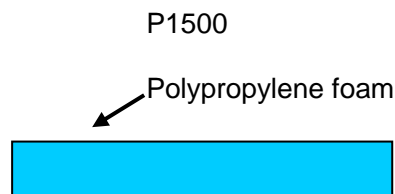
P1500

Outline

P1500 series are polypropylene foam materials, 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



Features

- The environment impact material is not used.
- P1500 obtained the Fire-resistant (UL94 HF-1) with halogen-free.
- 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.

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Standard Size

Table-1

Thickness (mm)	Width (mm)	Length (M)
0.3~1.5 Received in unit of 0.1mm	500	100

*For other sizes, please contact us.

Properties

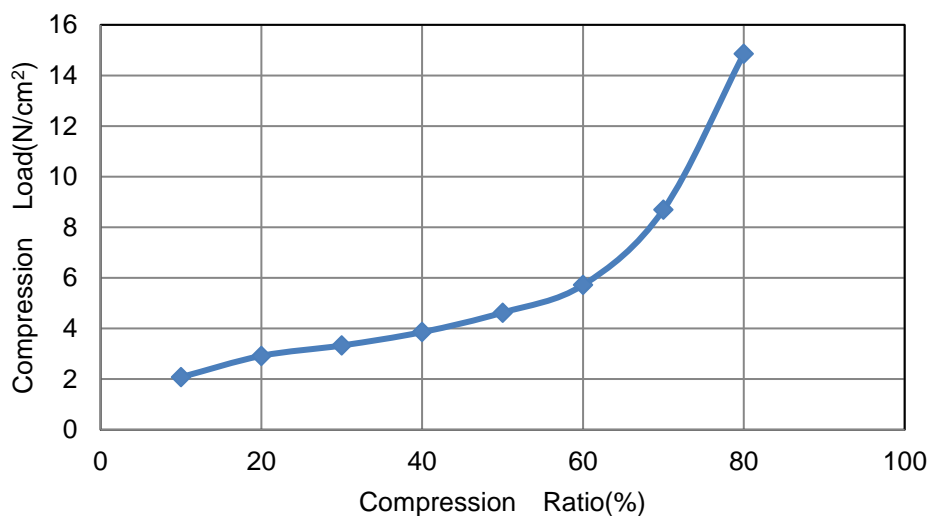
● Properties of Foam

(1) General Properties

Table -2

Property	Unit	Values	Test method
Density	g/cm ³	0.070	JIS K 6767
50% Compression Load	N/cm ²	4.6	

(2) Compression Ratio vs. Compression Load



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(3) Dimension Stability

Table -3

		Storage condition (70°C)		
		170hr	340hr	720hr
P1500	MD	-0.19	-0.25	-0.28
	TD	-0.07	-0.05	-0.29

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	1.7	30	32

Toluene conversion value

◇ 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	< 13	< 13	< 13	< 13	< 13	< 13

◇ 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	40	9.5	<5.0	<5.0	<5.0	<5.0

*< : Under the limit of detection

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.
- You should perform the test yourself to make sure the product is capable of the application.

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