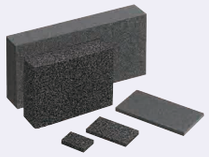
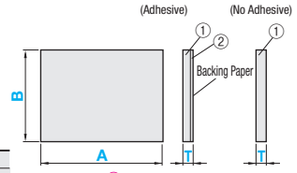
EPT Sealer® Sponge, Opsealer® Sponge

■Semi-closed cell foam can be compressed at small rebound stress, and changes its structure to closed cell after the compression. Therefore, water cannot pass through the material.



EPA (Adhesive)
EPAOP (Adhesive)
EPAN (No Adhesive)



※Adhesive thickness is 0.16mm.

■Accuracy Standards

T Dimension Tolerance	
T	Tolerance
3~10	±1.0
15~25	±2.0
30	±2.5

A, B Dimension Tolerance	
A, B	Tolerance
20	±2.0
30~50	±2.5
60~140	±3.5
150~290	±6.5
300~500	±9.0

※A≥B

Type	Material ①	Material ②
EPA EPAN	EPDM Foam (EPT Sealer®)	Adhesive with Unwoven Cloth Base Material
EPAOP	EPDM Foam (Opsealer®)	Adhesive with Net Base Material

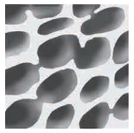
※EPT Sealer® is a registered trademark of Nitto Denko Corporation.
※Opsealer® is a registered trademark of Sanwa Kako Co., Ltd.

Part Number	10mm Increment A	10mm Increment B	Selection T
EPA EPAOP EPAN	20~500	20~400	3 5 8 10 15 20 25 30

Ordering Example

Part Number	A	B	T
EPA	100	80	8
EPAOP	200	100	30
EPAN	150	100	10

• Semi-closed Cell Structure


Before Compression


After Compression

■Characteristic Values ※The values are not guaranteed but measured ones.

Measurement Item		EPA	EPAOP
Color		Black	Black
Specific Gravity		0.11	0.08
Tensile Strength (Mpa)		0.08	0.1
Elongation (%)		450	205
Compression Hardness (25%) (kg/cm2)		0.03	0.04
Compression Hardness (50%) (kg/cm2)		0.05	0.05
Compression Rate (%)	50	-	△
	60	×	○
	70	△	◎
	80	○	○
	90	○	-

- : No measurement data
○ : No leakage of water after 30mins.
△ : Leakage of water is seen within 30mins.
× : Leakage of water is seen within 10mins.

※The price of this product is the unit price shown in the table multiplied by material multiplier.
(Ex.) Part Number - A - B - T >> (Price in the Table) x (Material Multiplier) =Standard Type Unit
EPAN -150 - 100 - 10

Part Number	T	A	Unit Price B 20~100	110~200	210~300	310~400
EPA (x1.0) EPAN (x0.9)	3	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	5	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	8	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	10	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				

Part Number	T	A	Unit Price B 20~100	110~200	210~300	310~400
EPA (x1.0) EPAN (x0.9)	15	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	20	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	25	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	30	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				

Part Number	T	A	Unit Price B 20~100	110~200	210~300	310~400
EPAOP	3	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	5	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	8	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	10	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				

Part Number	T	A	Unit Price B 20~100	110~200	210~300	310~400
EPAOP	15	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	20	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	25	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				
	30	20~100		-	-	-
		110~200			-	-
		210~300				-
		310~400				
		410~500				

Special Foam Polyurethane SOFRAS®

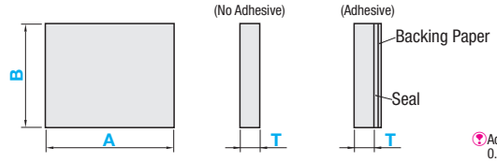
Sheet Type, Rolled Type

■This special urethane foam has good water retention and wear resistance allowing it to be used in industrial purposes such as application and moisture absorption.

■Sheet Type

Type No Adhesive	Type Adhesive	Material	Hardness	Color
SOFRAS	SOFRASA	Special Foam Polyurethane SOFRAS®	Asker C11	White

※SOFRAS® is a registered trademark of AION Co., Ltd.



※Adhesive thickness is 0.06 ~ 0.10mm.

Part Number Type	5mm Increment A	5mm Increment B	Selection T
No Adhesive SOFRAS Adhesive SOFRASA	10~480	10~270	5 10 15 20
	20~480	20~270	

Ordering Example

Part Number	A	B	T
SOFRAS	300	200	10

■Adhesive Charge

A	B 10~100	B 105~200	B 205~270
10~100		-	-
105~200			-
205~300			
305~400			
405~480			

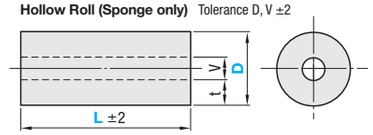
Type	T	A	Unit Price B 10~100	105~200	205~270
No Adhesive SOFRAS Adhesive SOFRASA	5	10~100		-	-
		105~200			
		205~300			
		305~400			
		405~480			
	10	10~100		-	-
		105~200			
		205~300			
		305~400			
		405~480			

Type	T	A	Unit Price B 20~100	105~200	205~270
No Adhesive SOFRAS Adhesive SOFRASA	15	20~100		-	-
		105~200			
		205~300			
		305~400			
		405~480			
	20	20~100		-	-
		105~200			
		205~300			
		305~400			
		405~480			

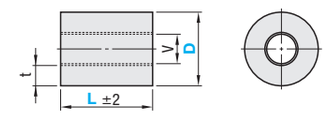
■Rolled Type

Type Hollow Roll (Sponge only)	Type With Resin Roll	Material	Hardness	Color
SOFRASR	SOFRASRP	Sponge: Special Foam Polyurethane SOFRAS® Resin Roll: Polypropylene (PP)	Asker C7	White

Hollow Roll (Sponge only) Tolerance D, V ±2



With Resin Roll Tolerance D±2 V±1



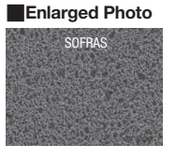
Type	Part Number Type	Selection	5mm Increment L	V	t
Hollow Roll (Sponge only)	SOFRASR	40	30~600	22	9
With Resin Roll	SOFRASRP	40	30~600	16	9

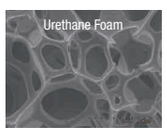
Ordering Example

Part Number	D	L
SOFRASRP	40	200

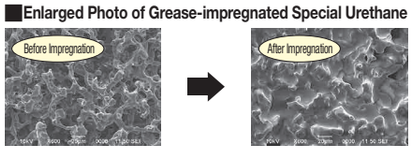
Type	Part Number Type	D	Unit Price L (5mm Increment) 30~100	101~200	201~300	301~400	401~500	501~600
Hollow Roll (Sponge only)	SOFRASR	40						
With Resin Roll	SOFRASRP	40						

■Enlarged Photo





■Enlarged Photo of Grease-impregnated Special Urethane



■Material Properties

Air Bubble	Continuous Cell		Lamination	Semi-closed Cell	Independent Cell
Material	SOFRAS®	Urethane Foam	Felt	EPT Sealer®	CR, EPDM, NBR, Silicon, Fluorine
Page	P.446	P.441	P.447	P.445	P.441
Application Example	Application and Moisture Absorption			Dust-proof and Protection	
Apparent Density g/cm³	0.2	0.02	0.2	-	0.1~0.3
Tensile Strength kPa	1000	76		-	-
Water Retention Rate %	400	-	80	-	-
Heat Resistant °C	130	70	120	-	130~200
Water Retention	◎	○	○	△	×
Abrasion Resistance	◎	×	×	×	○
Water Resistance	◎	△	◎	×	○
Chemical Resistance	○	×	△	×	×

Example