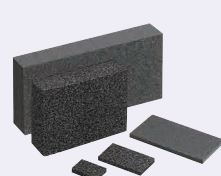


EPT Sealer® Sponge, Opsealer® Sponge

Note that, for some of the types shown here, order might be unable to be received by the MISUMI Indonesia offices.

Special Foam Polyurethane SOFRAS® Sheet Type, Rolled Type

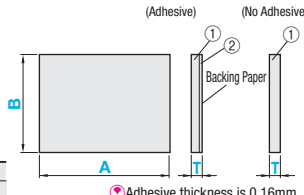
■ Semi-closed cell foam can be compressed at small rebound stress, and changes its structure to closed cell after the compression. Therefore, water cannot pass through the material.



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

Ⓜ A≥B

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



(Adhesive) (No Adhesive)

① ②

Backling Paper

Adhesive thickness is 0.16mm.

■ Accuracy Standards

T Dimension Tolerance		A, B Dimension Tolerance	
T	Tolerance	A, B	Tolerance
3~10	±1.0	20	±2.0
15~25	±2.0	30~50	±2.5
30	±2.5	60~140	±3.5
		150~290	±6.5
		300~500	±9.0

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

Ⓜ EPT Sealer® is a registered trademark of Nitto Denko Corporation.

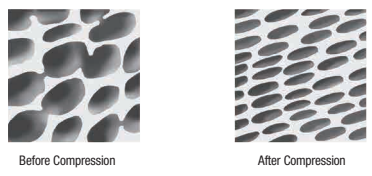
Ⓜ Opsealer® is a registered trademark of Sanwa Kako Co., Ltd.

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



■ 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/cm ²)	0.03	0.04
Compression Hardness (50%) (kg/cm ²)	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	210-300	310-400	
EPA (x1.0)	3	20~100	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	-	-	-		

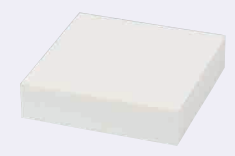
Part Number	T	A	Unit Price			
			B	210-300	310-400	
EPA (x1.0)	15	20~100	20~100	-	-	-
		110~200	-	-	-	
		210~300	-	-	-	
		310~400	-	-	-	
		410~500	-	-	-	
	20	20~100	-	-	-	
		110~200	-	-	-	
		210~300	-	-	-	
		310~400	-	-	-	
		410~500	-	-	-	
	25	20~100	-	-	-	
		110~200	-	-	-	
		210~300	-	-	-	
		310~400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

Part Number	T	A	Unit Price			
			B	210-300	310-400	
EPAOP (x0.9)	3	20~100	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	-	-	-		

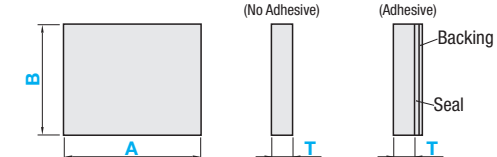
Part Number	T	A	Unit Price			
			B	210-300	310-400	
EPAOP (x0.9)	15	20~100	20~100	-	-	-
		110~200	-	-	-	
		210~300	-	-	-	
		310~400	-	-	-	
		410~500	-	-	-	
	20	20~100	-	-	-	
		110~200	-	-	-	
		210~300	-	-	-	
		310~400	-	-	-	
		410~500	-	-	-	
	25	20~100	-	-	-	
		110~200	-	-	-	
		210~300	-	-	-	
		310~400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

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



(No Adhesive) (Adhesive)

Backling Paper

Seal

Adhesive thickness is 0.06 ~ 0.10mm.

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

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

Ordering Example

Part Number - A - B - T

SOFRAS - 300 - 200 - 10


■ Adhesive Charge

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

Type	T	A	Unit Price		
			B	210-300	310-400
No Adhesive SOFRAS	5	10~100	-	-	-
		105~200	-	-	-
		205~300	-	-	-
		305~400	-	-	-
		405~480	-	-	-
Adhesive SOFRASA	10	10~100	-	-	-
		105~200	-	-	-
		205~300	-	-	-
		305~400	-	-	-
		405~480	-	-	-

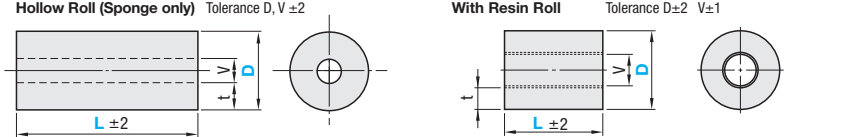
Type	T	A	Unit Price		
			B	210-300	310-400
No Adhesive SOFRAS	15	20~100	-	-	-
		105~200	-	-	-
		205~300	-	-	-
		305~400	-	-	-
		405~480	-	-	-
Adhesive SOFRASA	20	20~100	-	-	-
		105~200	-	-	-
		205~300	-	-	-
		305~400	-	-	-
		405~480	-	-	-

■ Rolled Type



Type		Material	Hardness	Color
Hollow Roll (Sponge only)	With Resin Roll			
SOFRAS	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	Selection	5mm Increment	V	t
Hollow Roll (Sponge only)	SOFRAS	40	30~600	22	9
With Resin Roll	SOFRASRP	40	30~600	16	9

Ordering Example

Part Number - D - L

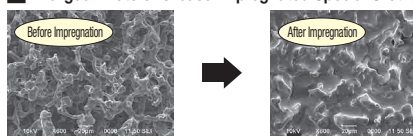
SOFRASRP - 40 - 200

Type	Part Number	D	Unit Price					
			L (5mm Increment)	30-100	101-200	201-300	301-400	401-500
Hollow Roll (Sponge only)	SOFRAS	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	P446	P441	P447	P445	P441
Application Example	Application and Moisture Absorption		Dust-proof and Protection		
Apparent Density g/cm ³	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	○	×	△	×	×

