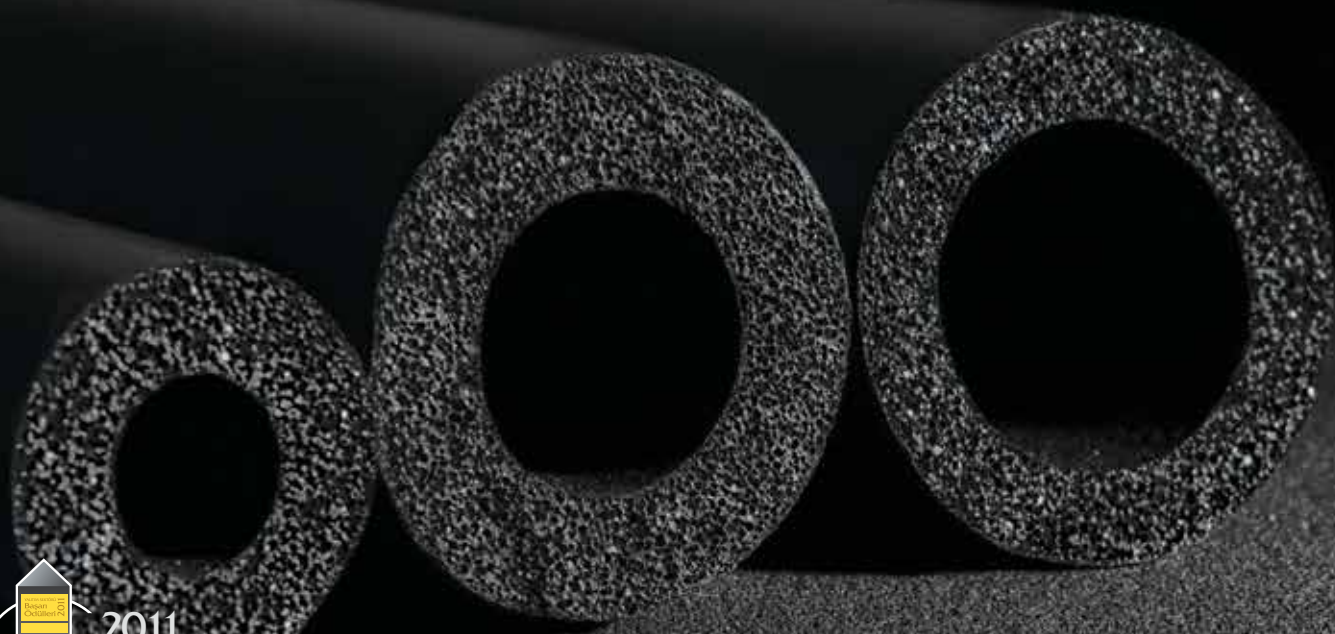


oneflex[®]
oneflex.com.tr



2011

Insulation industry
achievement awards, winner of
" Investment of the year award "

Elastomeric Rubber Foam

The elastomeric rubber foam materials having high vapor diffusion values, provide a good insulation and condensation control on the installation.



What is Elastomeric Rubber Foam ?

Being used commonly in air-conditioning and cooling installations, the Elastomeric Rubber Foam, as evident from the name, is an insulating material Elastomeric Rubber -based, with closed pores, uniform cell structure. The elastomeric rubber foam materials having high vapor diffusion values, provides a good insulation and condensation control on the fittings. It can be applied after calculating the required thicknesses for providing energy saving and preventing the condensation over the installation.

How to Apply ?

The Elastomeric Rubber Foam materials are manufactured in tubes and sheets forms from flexible materials. The tubes are cut on two edges for affixing. The insulating tubes may either be applied to the fitting of the installation or after the fitting is completed. These tubes are affixed lengthwise and from the joints by Formix adhesive. Sheets are used for the insulation of large diameter (above 5") pipes and air-conditioner ducts. If required. It is possible to use these sheets as self-adhesive. Insulation is the right application to guarantee the best project performance of the system. If not properly applied, the system might stop operating, the pipes might remain under the suspended roof and might be in hardly accessible places and condensation problems may occur.

Environment Friendly Technology

The elastomeric rubber foams with high heat insulation values is resistant to water and vapor and in the meantime, resistant to UV (Ultra Violet) rays, tough air conditions and lubricants. Providing utility and installation ease thanks to the high elasticity, the Elastomeric Rubber Foams prevents fungus and mould growth.



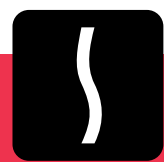
The heat transmission coefficient is the most important insulating qualification. By means of the stationary air restrained in the closed cells of Oneflex and the low heat conductivity of the elastomeric material, significant reduction in heat transfer is ensured. The low insulation value carries the insulating surface temperature to the optimal values.



Manufactured in accordance with the convenient density and the closed cell ratio, the material and the cellular structure of Oneflex, resist the water vapor transmission at long-range and by ensuring the insulation efficiency.



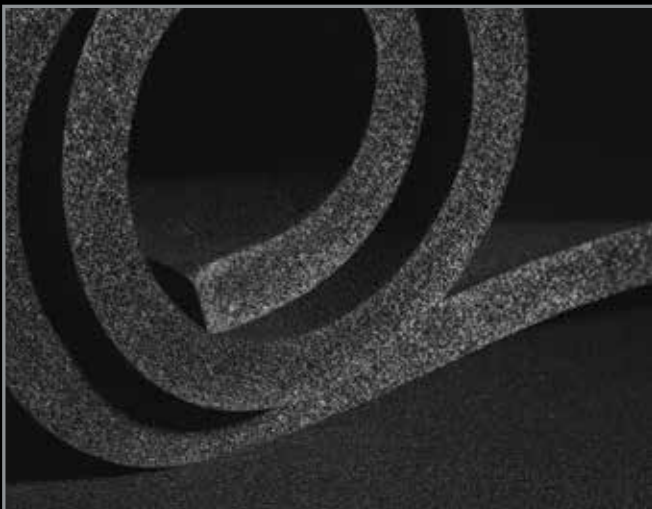
Oneflex elastomeric rubber foam is fire resistive. It prevents the horizontal and vertical spread of flame in case of a fire. This feature meets the entire values prescribed for the fire safety therefore it's an insulation material which you can confidently use within your installations.



Oneflex elastomeric rubber foam enables; easy and fast installation even in places where the insulation is hardly applied such as the elbows and T connections thanks to its extraordinary flexibility and elasticity, time and labor saving for the investor and the applicator.

AREAS OF USAGES AND ADVANTAGES

- Oneflex elastomeric rubber foam is manufactured particularly for heating, cooling, air conditioning installations, conduits, tube equipments and fittings
- Oneflex elastomeric rubber foam can also be manufactured coated (PVC , Aluminum) in line with the requirements.
- It prevents the spread of fire and is compliant with related standards in terms of ignition and flaming
- Resistant to chemicals (please ask for the chemical resistance table), water and water vapor.
- Types resistant to harmful UV rays of the sun are available. Can be used conveniently in external environments.
- For the air conditioning canals, can be manufactured in roll and sheet forms, in various thicknesses and self-adhesive on one side.
- Does not impose extra mechanical load over the installation. (Coating materials are twice lighter than the aluminum sheet and 5 times lighter than the galvanized sheet.)
- Easy to clean when polluted. One of the most hygienic products known. Light. Easy to transport and store.
- Resistant to mechanical impacts thanks to its elasticity, restores when the pressure is removed in case of crushing and crashing.
- More economical in terms of period of time and labor power when compared to the sheeted insulation.
- When applied properly, increases the vapor diffusion resistance of the system
- A durable insulation material for installation, only curved knife adhesive and sticky tape for the joints are enough.
- Has a flat surface and aesthetical appearance. Integrates with the environment in outer spaces thanks to its stylish and aesthetical appearance.



ONEFLEX STANDARD SHEET / ROLLS

Elastomeric Rubber Foam Sheet / Rolls



- Wide range of production.
- 7 different thicknesses, 2 different widths production (100 cm and 120cm) according to the distances between the flanges of the rectangular ventilation ducts.
- Manufactured in optimum sizes (1000-1200mm) for the duct insulation.
- Lowers the waste ratio in rectangular ducts.
- Lowers the total cost by decreasing the adhesive tape usage in round ducts.
- Helps to reduce the vibration in canal joints thanks to its flexibility.
- Using Oneflex Formix® contact adhesive is recommended for applying the Oneflex sheet rolls to the ducts' surfaces.

Thermal Conductivity λ (W / m.K)	0,032 (0°C)	
Density kg / m ³ (cbm)	45-60 kg/m ³ (cbm)	
Operating Temperature	-70 °C to +110 °C	
Water Vapor Diffusion Resistance Factor μ	≥ 7.000	
Fire Class Euro Class	EN 13501 - 1	B s3 d0
	DIN 4102	B1
	BS 476	Class 1
	NF P 92-507	M1

Thickness (mm)	Sheet Width (1000 mm)	Sheet Width (1200 mm)
	m ² /Roll	m ² /Roll
6	30	-
9	20	24
13	14	16,80
19	10	12
25	8	9,60
32	6	7,20
50	4	4,80

ONEFLEX FKY SHEET / ROLLS

Elastomeric Rubber Foam Self-Adhesive Sheet / Rolls



- Saves time and labor.
- Self-adhesive with netting.
- Ensures full sealing and eliminates the application faults.
- Decreases the waste ratio down to 2-3%.
- Manufactured in optimum sizes (1000-1200 mm) for the duct insulation.
- Helps to reduce the vibration in canal joints thanks to its flexibility.
- Provides high adhesion strength.
- Using Oneflex Formix® contact adhesive is recommended for applying the Oneflex sheet rolls to the ducts' surfaces.

Thermal Conductivity λ (W / m.K)	0,032 (0°C)	
Density kg / m ³ (cbm)	45-60 kg/m ³ (cbm)	
Operating Temperature	-70 °C to +110 °C	
Water Vapor Diffusion Resistance Factor μ	≥ 7.000	
Fire Class Euro Class	EN 13501 - 1	B s3 d0
	DIN 4102	B1
	BS 476	Class 1
	NF P 92-507	M1

Thickness (mm)	Sheet Width (1000 mm)	Sheet Width (1200 mm)
	m ² /Roll	m ² /Roll
6	30	-
9	20	24
13	14	16,80
19	10	12
25	8	9,60
32	6	7,20
50	4	4,80

ONEFLEX AF

Elastomeric Rubber Foam Sheet / Rolls covered with Aluminum Foil



- Aluminum and polyester laminated durable coating.
- Best performance with high quality raw material.
- Manufactured in optimum sizes (1000-1200mm) for the duct insulation.
- Helps to reduce the vibration in canal joints thanks to its flexibility.
- Packing resistant to outer environment.
- Application time and labor cost savings.
- UV-resistant.
- High resistance to mechanical impact.
- Using Oneflex Formix® contact adhesive is recommended for applying the Oneflex sheet rolls to the ducts' surfaces.

Thermal Conductivity λ (W / m.K)	0,032 (0°C)	
Density kg/m ³ (cbm)	45-60 kg/m ³ (cbm)	
Operating Temperature	-70 °C to +110 °C	
Water Vapor Diffusion Resistance Factor μ	≥ 13.000	
Fire Class Euro Class	EN 13501 - 1	B s3 d0
	DIN 4102	B1
	BS 476	Class 1
	NF P 92-507	M1

Thickness (mm)	Sheet Width (1000 mm)	Sheet Width (1200 mm)
	m ² /Roll	m ² /Roll
6	30	-
9	20	24
13	14	16,80
19	10	12
25	8	9,60
32	6	7,20
50	4	4,80

ONEFLEX AF KY

Elastomeric Rubber Foam Self Adhesive Sheet / Rolls covered with Aluminum Foil



- Aluminum and polyester laminated durable coatings.
- Packing resistant to outer environment.
- Self-adhesive with netting.
- Ensures full sealing and eliminates application faults.
- Manufactured in optimum sizes (1000-1200mm) for the duct insulation.
- Helps to reduce the vibration in canal joints thanks to its flexibility.
- Application time and labor cost savings.
- Provides full and perfect adhesion over the canal surface by its reinforced adhesive.
- Decreases the waste ratio down to 2-3%
- UV-resistant.
- Resistant to external conditions.
- High resistance to mechanical impact.

Thermal Conductivity λ (W / m.K)	0,032 (0°C)	
Density kg/m ³ (cbm)	45-60 kg/m ³ (cbm)	
Operating Temperature	-70 °C to +110 °C	
Water Vapor Diffusion Resistance Factor μ	≥ 13.000	
Fire Class Euro Class	EN 13501 - 1	B s3 d0
	DIN 4102	B1
	BS 476	Class 1
	NF P 92-507	M1

Thickness (mm)	Sheet Width (1000 mm)	Sheet Width (1200 mm)
	m ² /Roll	m ² /Roll
6	30	-
9	20	24
13	14	16,80
19	10	12
25	8	9,60
32	6	7,20
50	4	4,80

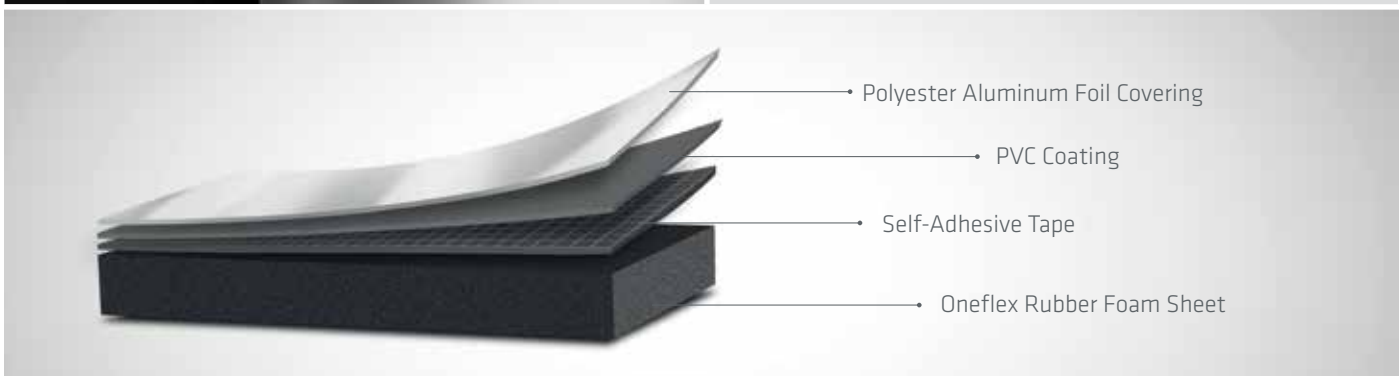
ONEFLEX AL GUARD

Elastomeric Rubber Foam Sheet / Rolls Covered with Reinforced PVC - Aluminum Foil



- PVC layer under-neath the polyester and aluminum lamination. Together they create a 260 μ thick and rigid outer protective surface.
- Aluminum and polyester laminated durable coating.
- Best performance with high quality raw material.
- Manufactured in optimum sizes (1000 mm) for the duct insulation.
- Helps to reduce the vibration in canal joints thanks to its flexibility.
- Packing resistant to outer environment
- Application time and labor cost savings.
- UV-resistant, high resistance to mechanical impact.
- Using Oneflex Formix® contact adhesive is recommended for applying the Oneflex sheet rolls to the ducts' surfaces.

Thermal Conductivity λ (W / m.K)	0,032 (0°C)	
Density kg/m ³ (cbm)	45-60 kg/m ³ (cbm)	
Operating Temperature	-70 °C to +110 °C	
Water Vapor Diffusion Resistance Factor μ	\geq 13.000	
Fire Class Euro Class	EN 13501 - 1	B s3 d0
	DIN 4102	B1
	BS 476	Class 1
	NF P 92-507	M1



	Sheet Width (1000 mm)	
Largeur (mm)	m ² /Rouleau	
6	30	
9	20	
13	14	
19	10	
25	8	
32	6	
50	4	

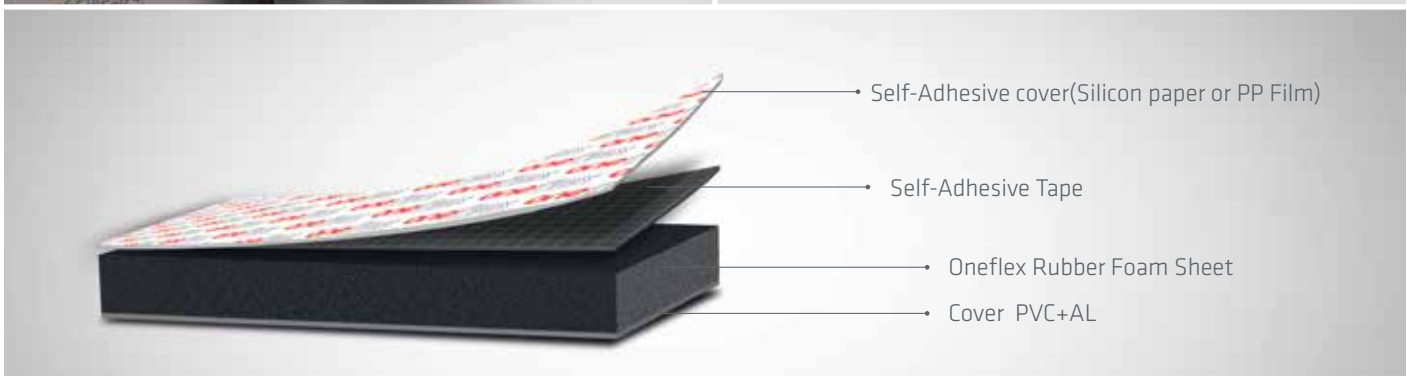
ONEFLEX AL GUARD FKY

Elastomeric Rubber Foam Self Adhesive Sheet / Rolls Covered with Reinforced PVC - Aluminum Foil with



- PVC layer under-neath the polyester and aluminum lamination. Together they create a 260 μ thick and rigid outer protective surface.
- Aluminum and polyester laminated durable coating.
- Best performance with high quality raw material.
- Manufactured in optimum sizes (1000 mm) for the duct insulation.
- Helps to reduce the vibration in canal joints thanks to its flexibility.
- Packing resistant to outer environment
- Application time and labor cost savings.
- UV-resistant, high resistance to mechanical impact.
- Using Oneflex Formix® contact adhesive is recommended for applying the Oneflex sheet rolls to the ducts' surfaces.
- Self-adhesive with netting.

Thermal Conductivity λ (W / m.K)	0,032 (0°C)	
Density kg/m ³ (cbm)	45-60 kg/m ³ (cbm)	
Operating Temperature	-70 °C to +110 °C	
Water Vapor Diffusion Resistance Factor μ	≥ 13.000	
Fire Class Euro Class	EN 13501 - 1	B s3 d0
	DIN 4102	B1
	BS 476	Class 1
	NF P 92-507	M1



	Sheet Width (1000 mm)	
Largeur (mm)	m ² /Rouleau	
6	30	
9	20	
13	14	
19	10	
25	8	
32	6	
50	4	

ONEFLEX TUBE

Elastomeric Rubber Foam Insulation Tubes



Application Area :

Optimal solution in heating, cooling, ventilating systems, and all industrial and constructional application processes.

Thermal Conductivity λ (W / m.K)	0,032 (0°C)
Density kg/m ³ (cbm)	45-60 kg/m ³ (cbm)
Operating Temperature	-70 °C to +110 °C
Water Vapor Diffusion Resistance Factor μ	≥ 3.000
Fire Class Euro Class EN 13501 - 1	B s3 d0
DIN 4102	B1
BS 476	Class 1
NF P 92-507	M1

Metric	Copper	Steel	6 mm	9 mm	13 mm
mm	Inch	Inch	m/Box	m/Box	m/Box
6	1/4"		496	352	210
8	5/16"		432	300	190
10	3/8"	1/8"	364	266	172
12	1/2"		316	234	162
15	5/8"		266	192	136
18	3/4"	3/8"	220	166	118
22	7/8"	1/2"	180	136	98
25	1"		150	116	88
28	1 1/8"	3/4"	130	98	78
35	1 3/8"	1"	100	76	58
42	1 5/8"	1 1/4"	90	70	48
48		1 1/2"	-	50	40
54	2 1/8"		-	50	40
60	2 3/8"	2"	-	46	32
67	2 5/8"		-	44	30
76	3"	2 1/2"	-	40	30
80	3 1/8"		-	40	30
89	3 1/2"	3"	-	36	28
102		3 1/2"	-	34	26
108	4 1/4"		-	30	22
114	4 1/2"	4"	-	26	20

ONEFLEX TUBE

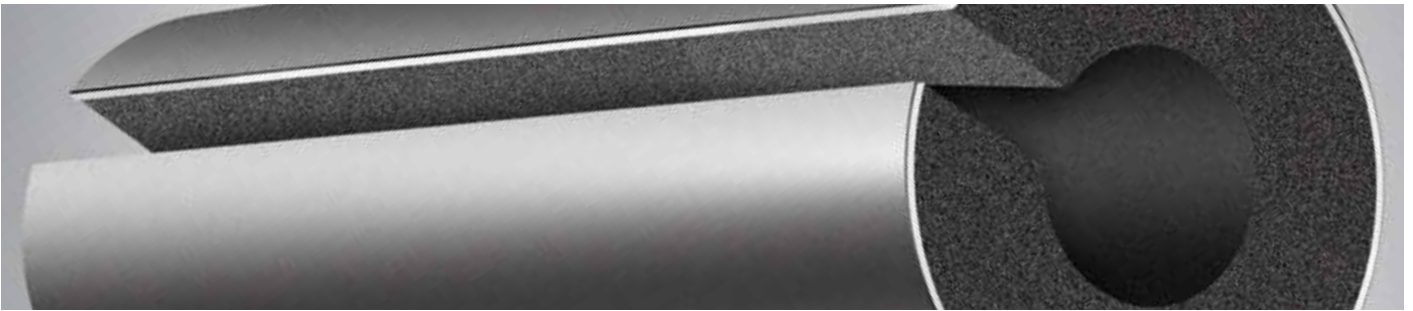
Elastomeric Rubber Foam Insulation Tubes



Metric	Copper	Steel	19 mm	25 mm	32 mm
mm	Inch	Inch	m/Box	m/Box	m/Box
6	1/4"		-	-	-
8	5/16"		-	-	-
10	3/8"	1/8"	-	-	-
12	1/2"		-	-	-
15	5/8"		-	-	-
18	3/4"	3/8"	72	50	-
22	7/8"	1/2"	64	42	-
25	1"		56	40	-
28	1 1/8"	3/4"	48	40	-
35	1 3/8"	1"	36	24	22
42	1 5/8"	1 1/4"	32	22	16
48		1 1/2"	24	18	14
54	2 1/8"		24	16	14
60	2 3/8"	2"	22	14	12
67	2 5/8"		20	14	12
76	3"	2 1/2"	18	12	10
80	3 1/8"		18	12	10
89	3 1/2"	3"	14	12	8
102		3 1/2"	14	12	8
108	4 1/4"		14	12	8
114	4 1/2"	4"	12	10	8

ONEFLEX PIPES CONVERTING TABLE

Table for converting pipes of diameter over 4 inches



Pipes diameter converting table

BS inch	DN Ø DN	Metric mm
1/4"		15
1/2"	DN15	22
3/4"	DN20	28
1"	DN25	35
1 1/4"	DN32	42
1 1/2"	DN40	48
2"	DN50	60
2 1/2"	DN65	76
3"	DN80	89
4"	DN100	114
5"	DN125	140
6"	DN150	169
8"	DN200	219
10"	DN250	273

Pipes diameter converting table

BS inch	DN Ø DN	Metric mm
12"	DN300	323
14"	DN350	398
16"	DN400	406
18"	DN450	467
20"	DN500	508
24"	DN600	610
28"	DN700	761
32"	DN800	813
36"	DN900	914
40"	DN1000	1016
44"	DN1100	1116
48"	DN1200	1219
52"	DN1300	1331
56"	DN1400	1422

Equivalent Quantity of Sheet Rolls (m²/m)

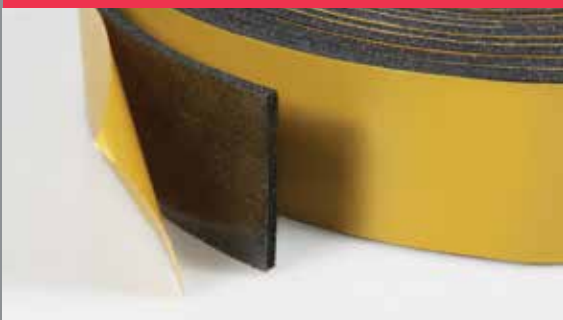
Steel Pipes diameter	Pipes thickness	Thickness of Insulation (mm)									
		6 mm	9 mm	13 mm	19 mm	25 mm	32 mm	40 mm	50 mm	60 mm	
inch	metric	mm									
4"	114	6	0.38	0.39	0.40	0.42	0.44	0.46	0.49	0.52	0.52
5"	140	8	0.46	0.47	0.48	0.5	0.52	0.54	0.57	0.6	0.6
6"	169	10	0.84	0.55	0.56	0.58	0.6	0.62	0.64	0.68	0.68
8"	219	12	0.71	0.72	0.73	0.75	0.77	0.79	0.82	0.85	0.85
10"	273	15	0.88	0.89	0.91	0.92	0.94	0.96	0.99	1.02	1.02
12"	323	18	1.04	1.05	1.06	1.08	1.1	1.12	1.15	1.18	1.18
14"	398	22	1.13	1.14	1.16	1.18	1.19	1.22	1.24	1.27	1.27

AUXILIARY MATERIALS

Rubber Foam Tape / Formix Contact Adhesive / Oneflex PVC Tapes / Aluminum Foil Tapes

- Oneflex reinforced rubber tapes provides full impermeability and sealing to the duct flanges preventing condensation.
- Oneflex PVC tapes provide economical installation.
- Oneflex aluminum foil tapes, insulation and vapor-proof applications.
- Oneflex Formix® contact adhesive with high adhesion strength.

Oneflex Rubber Foam Tape



Product	Dimensions
5 cm	3mm x 50mm x 15mt
7.5 cm	3mm x 75mm x 15mt
10 cm	3mm x 100mm x 15mt

Oneflex Formix Contact Adhesive



Product
1 kg
3.2 kg
15 kg

Oneflex Aluminum Foil Tapes



Product	Dimensions
Plain	50mm x 30m
Plain	75mm x 30m
Plain	100mm x 30m
Reinforced	50mm x 30m
Reinforced	75mm x 30m
Reinforced	100mm x 30m

Oneflex PVC Tapes



Product	Dimensions
3 cm	30mm x 25m
5 cm	50mm x 25m

PACKAGING

Elastomeric Rubber Foam Sheet / Elastomeric Rubber Foam Tube

Elastomeric Rubber Foam Sheet

Oneflex Standard Sheet	White PE Packing	<input type="checkbox"/>
Oneflex FKY	Yellow PE Packing	<input type="checkbox"/>
Oneflex AF	Grey PE Packing	<input type="checkbox"/>
Oneflex AF KY	Red PE Packing	<input type="checkbox"/>



Elastomeric Rubber Foam Tube



Elastomeric Rubber Foam Sheet		Size
Packaging	100 cm	0,23 m ³
Packaging	120 cm	0,26 m ³

Elastomeric Rubber Foam Tube		Size
Box		0,28 m ³

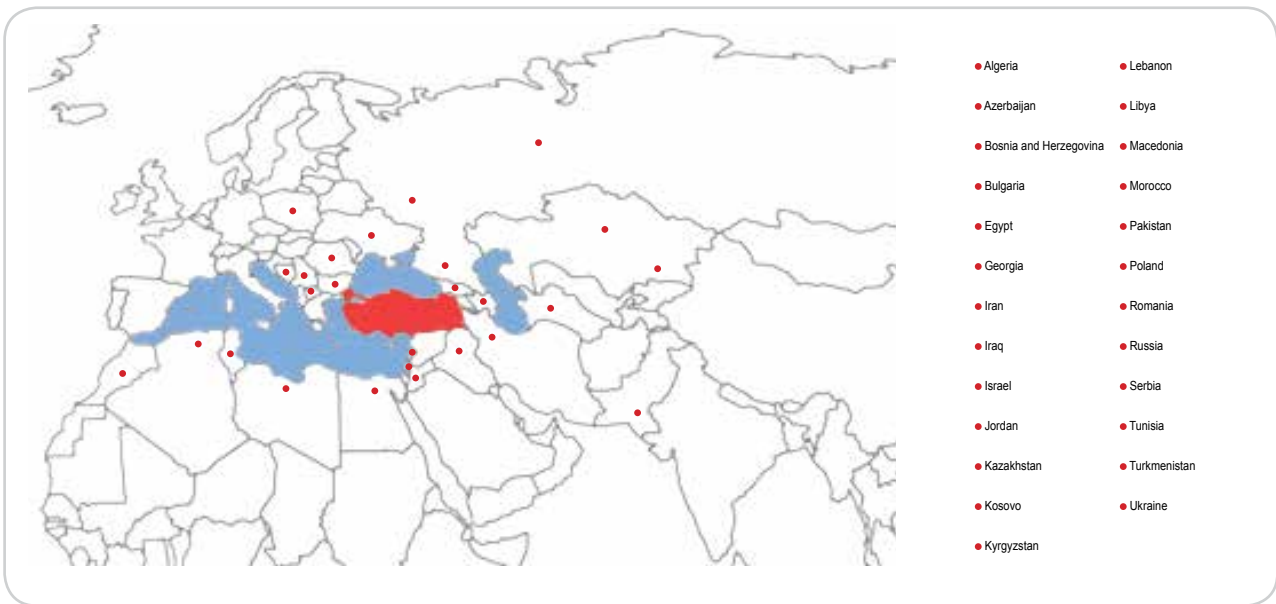
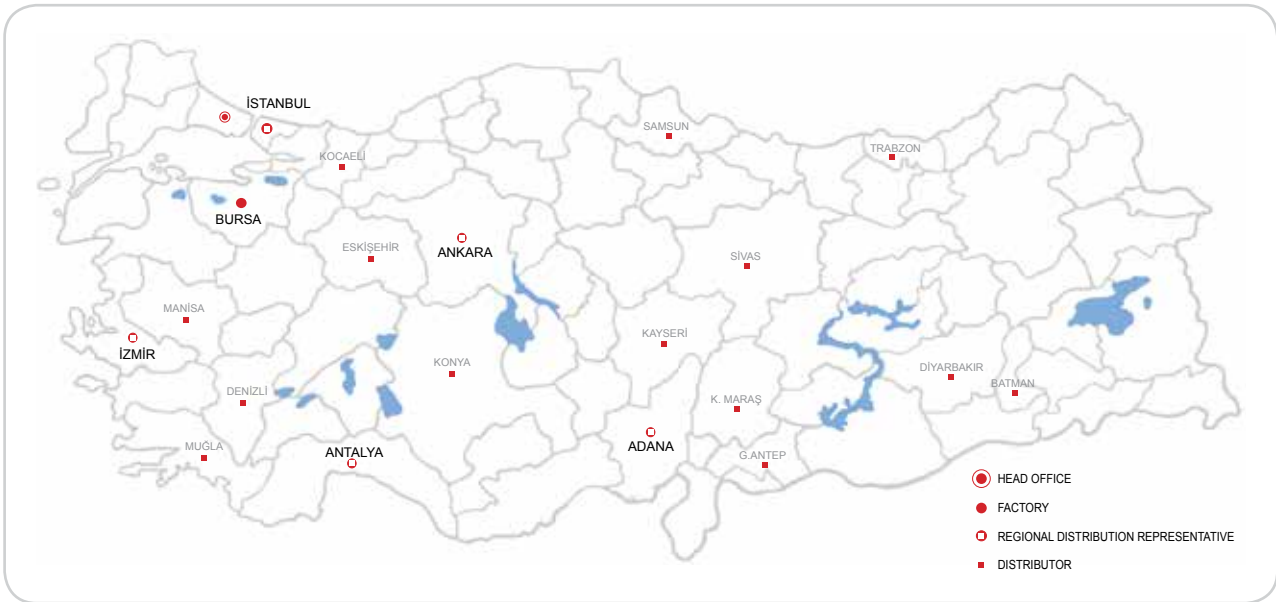
TRANSPORTATION PLANNING INFORMATION

		Truck		Trailer (T.I.R)		40 HC Container	
Estimated Volume m³ (cbm)		From 40 m ³ to 50 m ³		From 90 m ³ to 105 m ³		76 m ³	
Estimated Weight kg		max 2000 kg		max 4000 kg		max 3500 kg	
Sheet / Rolls PE Bags	Width of Roll	100 cm	120 cm	100 cm	120 cm	100 cm	120 cm
		180 Roll	160 Roll	350-360 Roll	300-320 Roll	300-310 Roll	260-270 Roll
Tube	Carton Box	155-160 Box		310-320 Box		260-270 Box	

* The quantities mentioned in the above table can be changed or altered according to the dimensions of the means of transportation (Truck/Trailer)

ONEFLEX in TURKEY and EXPORT MARKET

Trade Registration - Quality Certificate - Declaration of CE



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