DYNAFLEX®
RUBBER

ELASTOMERIC RUBBER FOAM
PIPE & ROLL

Yalıtımda dinamik® Çözüm

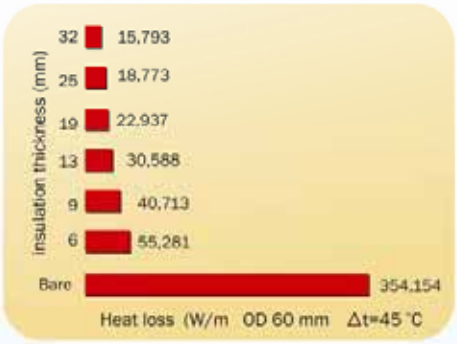
DYNAFLEX® RUBBER

Dynaflex-Rubber closed-cell elastomeric insulation products developed in accordance with the worldwide needs for energy conservation and by considering the advices of investors, engineers and technicians. Dynaflex-Rubber insulation products are commonly preferred for air conditioning and cooling systems insulations for their high resistant characteristics to vapor transmission. Dynaflex-Rubber provides the most efficient insulation solutions and systems by minimum investment costs with maximum energy saving features.

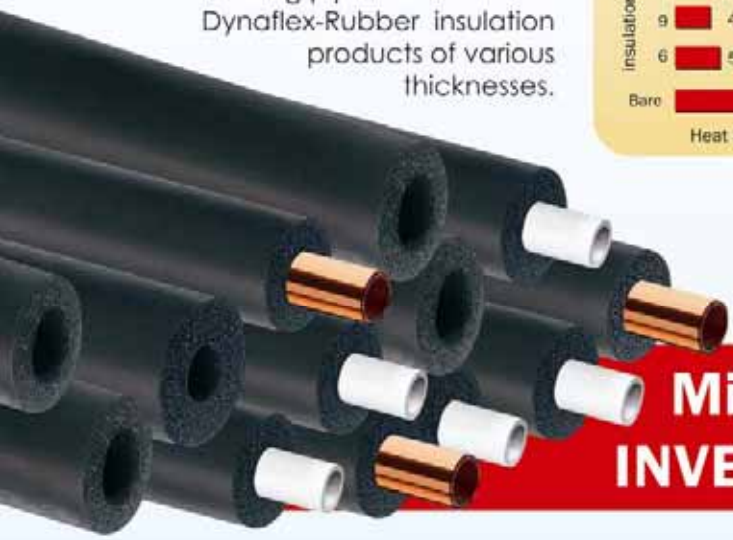
ENERGY SAVING OVER 80 %

ENERGY...

The graphic represents the heat loss values of a 60mm long pipe insulated with Dynaflex-Rubber insulation products of various thicknesses.



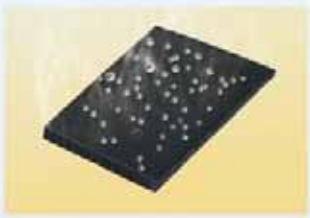
...& MONEY



Minimum INVESTMENT ◂▸ Maksimum INSULATION

Technical Specifications

λ < 0,035 W/m·K(0°C)



Thermal conductivity (λ) is the primal expression of the insulating properties. Still air enclosed in the closed cells of the Dynaflex-Rubber and low thermal conductivity characteristics of the elastomeric rubber foam provide significant reduction in heat transfer and the reduction value brings insulation surface temperatures to the ideal levels.

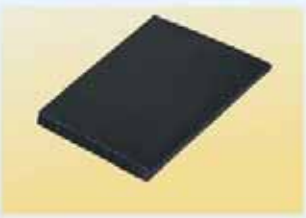
μ ≥ 7000

Dynaflex-Rubber inherent structure by accurate density and closed cell amount, offers a very high resistance to vapor transmission ensuring a long term performance and effectiveness of the insulation. By its excellent μ value Dynaflex-Rubber is the ideal solution which prevents condensation on the cooling and air conditioning systems.

Fire M1/Class 0

Dynaflex-Rubber elastomeric rubber foam products are resistant to fire and do not allow flame expansion and flaming particle dripping. Dynaflex-Rubbermaterial characteristics are approved by independent and accredited laboratories, and respond all requirements for fire safety. Thus Dynaflex-Rubber is used as the ideal insulation option for buildings.

Elasticity and Flexibility



Dynaflex-Rubber with its excellent elasticity and flexibility characteristics provides significant time and labor savings to the investors and installers by its ease of use even in hard to form parts (like T's or corners), of the installations.

DYNAFLEX® RUBBER - AL

ALUMINIUM LAMINATED ELASTOMERIC RUBBER FOAM PIPES

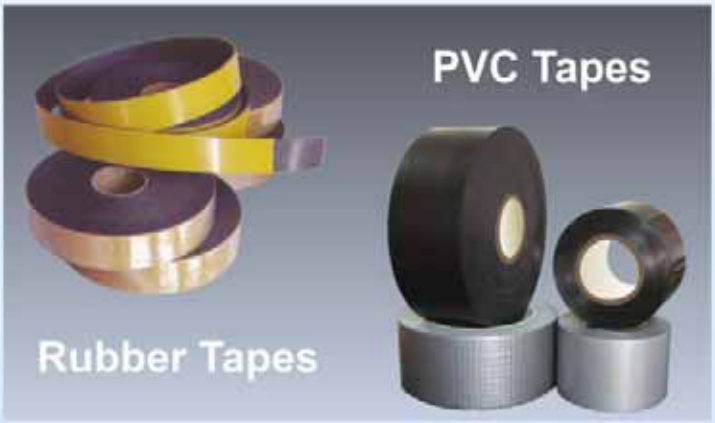
- Dynaflex-Rubber elastomeric rubber foam pipes are manufactured with AL laminations
- AL Foil of 65 micron thickness is used as laminating material
- Dynaflex-Rubber AL provides maximum UV resistance
- Dynaflex-Rubber AL provides maximum resistance to outdoor conditions
- Dynaflex-Rubber AL has very high vapor diffusion coefficient, $\mu \geq 150.000$
- Dynaflex-Rubber AL has aesthetic appearance
- Dynaflex-Rubber AL does not require any additional coverings thus very economical

ACCURATE DENSITY

Thermal conduction coefficient value highly correlates with the density of the insulation material. It is easy to observe that if low density insulation materials are used to insulate a system, measured heat transfer rates due to convection and radiation are significantly high comparing to the high density materials. But heat transfer due to conduction represents reverse reaction for the same cases, for high density materials, measured heat transfer rates are high rather than low density materials. Therefore the best insulation properties can be obtained by assessing the density value at the equilibrium value of the heat transfer rates. With this density the material has the optimum thermal conduction coefficient thus best insulation properties, and beyond the concerning values the thermal conduction coefficient tends to increase. High density and very small cell structures and low density (means less production costs) and large cell structures both result significantly poor insulation characteristics for the material. So the number of closed cells in unit area and their sizes and the correct density are criterias for selecting right insulation materials. Dynaflex rubber foam insulation products have the optimum values for cell amounts and densities that are 100-120 cells/m^2 and 60-75 KG/m^3 for perfect insulation properties and resulting highest efficiency.

DYNA TAPE

HVAC TAPES



DYNA FIX

APPLICATION AREAS

·Gluing insulation products for installations like polyethylene and rubber foam insulation materials

·Gluing and fixing acoustic insulation materials, acoustic panels and pipes

·Bonding sponge, fabric, felt etc.

·It is used for wood and decorative laminates, leather, cork, felt, rigid PVC, bonding veneer strips to edges and curves Gluing wooden profiles, MDF, rubber, chipwood, plastic and rubber, repairing and fixing of wooden parts

DYNAFLEX® RUBBER

APPLICATION ADVANTAGES

? Dynaflex-Rubber is the name of the rubber foam insulation materials in the form of sheet. Excellent flexibility and high strength features make Dynaflex-Rubber very convenient for insulating large surfaces of industrial equipments like big pipes, ducts, boilers etc. Dynaflex-Rubber with or without self adhesive and/or AL laminations provide ideal heat insulation and eliminate condensation problems of the insulated systems.

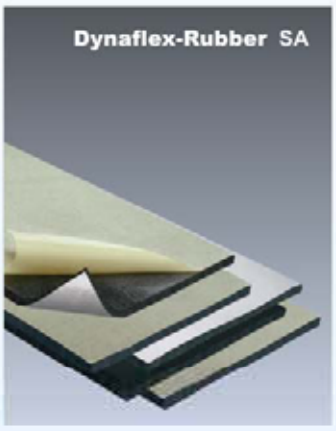
PACKAGING LIST

Dynaflex-Rubber SS

Thickness mm	m²/ Roll	Dimensions (Rolls/m)
3	45	1x45
6	30	1x30
10	20	1x20
13	14	1x14
16	12	1x12
19	10	1x10
25	8	1x8
32	6	1x6
36	5	1x5
40	4	1x4
50	4	1x4

Dynaflex-Rubber SA
Self Adhesive

Thickness mm	m²/ Roll	Dimensions (Rolls/m)
3	45	1x45
6	30	1x30
10	20	1x20
13	14	1x14
16	12	1x12
19	10	1x10
25	8	1x8
32	6	1x6
36	5	1x5
40	4	1x4
50	4	1x4



Dynaflex-Rubber AL
Aluminiin Cladding

Thickness mm	m²/ Roll	Dimensions (Rolls/m)
3	45	1x45
6	30	1x30
10	20	1x20
13	14	1x14
16	12	1x12
19	10	1x10
25	8	1x8
32	6	1x6
36	5	1x5
40	4	1x4
50	4	1x4

Dynaflex-Rubber AL-SA
Self Adhesive and Aluminiin Cladding

Thickness mm	m²/ Roll	Dimensions (Rolls/m)
3	45	1x45
6	30	1x30
10	20	1x20
13	14	1x14
16	12	1x12
19	10	1x10
25	8	1x8
32	6	1x6
36	5	1x5
40	4	1x4
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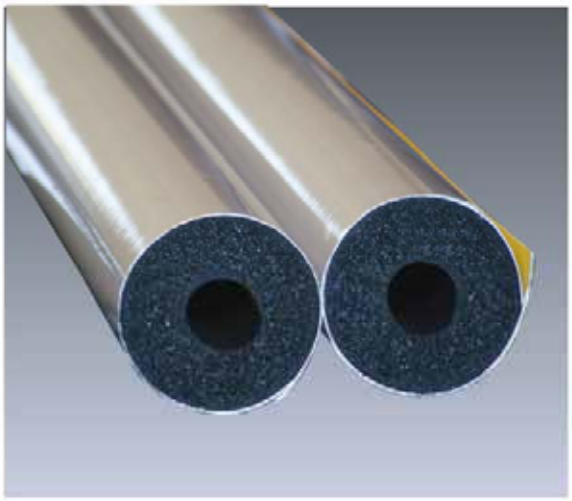
DYNAFLEX® RUBBER

ELASTOMERIC RUBBER FOAM PIPE AND SHEET COATED WITH PVC AND ALUMINUM



TECHNICAL SPECIFICATIONS OF PVC COATING WITH ALIMINUM FOLIO LAMINATION

Structure	PVC,Aluminum,Pet
Thickness	405 Micron
Weight	578 gr/m²
Stroke resistance	>550 kJ/m²
Stretching force	>40n/mm²
Stretching extension	>150 %
Fire behavior	No flammable (DIN4102-B1)
Humidity/resistance factor	> 140.000

For those who seek the quality in insulation

- Dynaflex -Rubber is produced especially for heating and cooling systems, air conditioning, canal, pipe equipment and armatures by coating elastomeric rubber foam with PVC and aluminum foil.
- No flammable, no burning, no explosive according to the requirements of DIN 4102 B1.
- Resistant against some chemicals such as acid, salt, benzene and water and water vapor.
- Not affected by harmful UV rays of the sun thus can be used in outdoor areas.
- For air conditioning canals, produced in the shape of Roll and Sheet in different sizes with one sticky side.
- Brings no additional mechanical load in the assembly. (lighter by 2 folds compared to aluminum sheet and 5 folds to galvanized sheet)
- Hygienic so easily cleaned when it is dirty.
- Light thus offers easy transport and storage.
- Elastic thus not affected by mechanical strokes; on the event of crushing, impacts, etc. takes its previous shape back when the pressure disappears.
- Cheaper by 50% than sheet metal coated insulation in terms of time and labor cost.
- If applied properly, increases the vapor diffusion resistance of the system to m≥a.
- A long lived insulation material.
- No need for additional machinery or equipment for production and assembly (such as caka, guillotine, forklift, workshop hoist, etc.)
- Falcate, adhesive and tape for joints are enough as production and installation equipment.
- Has a smooth surface and aesthetical appearance.
- In outdoor areas, it becomes integrated into the environment it is assembled thanks to the aesthetic and elegant appearance.

DYNAFLEX® RUBBER

TECHNICAL SPECIFICATIONS OF DYNAFLEX - RUBBER

Operating Ttemperature	The suggested temperature of operating for the Dynaflex-Rubber foam is given as follows; Pipes : **-40, +116°C** Plate and rolls : **-40, + 85°C**
Density 	Dynaflex-Rubber insulation products offer the most productive and appropriate insulation opportunities thanks to the closed cell structure (100-120 cell/cm2) and optimum intensive base. (60-75) kg/m³
Heat permeability coefficient (λ) 	Dynaflex-Rubber insulation products reduces heat transfer significantly thanks to the stable air kept in the closed cells and low heat transfer characteristic of elastomeric material. **at 0°C 0035W/(m°K)** **at + 20°C 0037W/(m°K)**
Steam diffusion coefficient (μ) 	the material and the inner structure of Dynaflex-Rubber insulators are resistant against the steam diffusion significantly **≥ 7000**
Fire 	Dynaflex-Rubber is not flammable, explosive and burning material thus ensures very safe insulation in the buildings. **Class 0 : BS 476 (UK)** **B1: DIN 4102 (Germany)** **MI: NFP 92501 (France)**
Flexibility elasticity 	A superior flexibility of Dynaflex-Rubber foam provides a productive insulation, easy and fast assembly. Stretching resistance : **0.32 Mpa** Torn and break off resistance: **203%** Resistance against to be torn: **1.59 KN/m**
Sound insulation	**Over 32 Db**
Outdoor Resistance	**High**
Color & Odor	**Black & Natural**

CFC Free

The technical values of Dynaflex-Rubber can be changed without previous notification by the purpose of recovery of the products.

1203/4 Sok. No:1/A Yenişehir - İzmir - TÜRKİYE
Tel: + 90 232 449 12 50 Fax: + 90 232 449 01 34
e-mail: export@dinamik-izmir.com
http://www.dinamik-izmir.com

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