Yalıtımda dinamik® Çözüm

Polyethylene Foam Insulation Products Catalog



DYNAFLEX® PE

A Better Future Starts with Dinamik

www.dinamik-izmir.com

DYNAFLEX PE Strong Performance in Insulation

In today's world, where energy efficiency and sustainable solutions are more important than ever, we offer insulation products that provide the strongest response to the expectations of investors, project managers, users, and applicators. DYNAFLEX PE closed-cell polyethylene insulation products are manufactured in our modern facilities located in the İzmir Tire Organized Industrial Zone. Developed with DİNAMİK's technical experience, commercial know-how, and superior quality approach, these products provide flawless solutions to energy conservation needs.

Thermal Conductivity Coefficient (λ) <0.040 W/m°K

The thermal conductivity coefficient is one of the most important technical characteristics of insulation products. DYNAFLEX PE closed-cell polyethylene sheets and pipes minimize energy losses due to their low thermal conductivity coefficient. This property provides maximum insulation value and significantly reduces energy costs during heating and cooling processes.

Vapor Diffusion Coefficient (μ) >5000

DYNAFLEX PE closed-cell polyethylene sheets and pipes, thanks to their high density and closed-cell structure, provide long-term high resistance to vapor diffusion. This feature eliminates condensation problems that can occur in air conditioning and cooling lines. It ensures long-lasting and reliable use, improving system performance and efficiency.

Fire Class E Sınıfı (EN 13501-1)

DYNAFLEX PE, closed-cell polyethylene sheets and pipes can be safely used in heating and cooling installations. With this feature, which ensures safety at high standards, it caters to a wide range of applications, from industrial and commercial buildings to individual projects.



Polyethylene Pipe

Climaflex Polyethylene Pipes, produced using extrusion technology, have maximum vapor permeability resistance and minimum thermal conductivity coefficient thanks to their optimum density and ideal closed-cell ratio. They are manufactured in pipe diameters ranging from 6 mm to 139 mm, with wall thicknesses of 6, 10, 15, 20, and 30 mm. Closed-cell polyethylene insulation pipes are economical insulation materials that can be safely used in your installations with low cost and high insulation values.



Aluminum Foil Coated Polyethylene Pipe

DYNAFLEX PE AL aluminum foil coated polyethylene pipe is produced with a composite aluminum foil lamination of 65 microns in total thickness. This feature makes it highly resistant to climatic conditions, wind, rain, and the adverse effects of the sun. With this property, it is the only insulation material that can be used comfortably in outdoor conditions without the need for additional coating. Thanks to the laminated AL foil, the vapor diffusion coefficient reaches very high values (μ>150,000), making it a reliable insulation material that can be used safely in air conditioning and cooling systems without condensation problems. The superior features of DYNAFLEX PE AL, patented by the Turkish Patent Institute, are also protected by the Utility Model certificate.



Polyethylene Pipe Dimensions and Box Meterages

STEEL PIPE	PLASTIC PIPE	PE NOMINAL SIZE	PIPE WALL THICKNESSES				
			6 mm	10 mm	15 mm	20 mm	30 mm
Inc	mm	mm	mt/box	mt/box	mt/box	mt/box	mt/box
1/2	20	22	360	230	150	120	100
3/4	25	28	260	180	130	100	66
1	32	35	180	130	108	70	60
11/4	40	42	150	100	80	64	50
11/2	50	48	130	90	64	60	50
2	63	60	100	60	48	44	40
21/2	75	76	90	44	40	40	30
3	90	89	-	30	30	28	-
4	110	114	-	24	24	20	-
5	140	-	-	-	-	20	-
6	169	-	-	-	-	12	-
8	219	-	-	-	-	10	-

DYNAFLEX PE closed-cell polyethylene insulation products are manufactured in facilities that comply with the ISO 9001:2008 quality management system and are monitored at every stage of production using laboratory and measurement devices within the factory. Our company, which adopts quality and customer satisfaction as its main principles, reflects this understanding in all of our business processes, from production to shipment.



DYNAFLEX PE Polyethylene Sheet Products

DYNAFLEX PE Polyethylene Sheet products can be safely used for the insulation of air conditioning and ventilation ducts, as well as pipes with a diameter larger than 4. DYNAFLEX PE sheets, produced in thicknesses of 6, 8, 10, 15, 20, and 30 mm, can be manufactured with or without mesh reinforcement and adhesive, and can also be produced with aluminum or metalized foil lamination upon request.
Manufactured with optimal density, DYNAFLEX PE sheets are the most ECONOMICAL insulation material you can safely use in cooling lines due to their high vapor diffusion coefficient.





DYNAFLEX PE AL

Thanks to the laminated aluminum foil on DYNAFLEX PE sheets, they achieve a very high vapor diffusion coefficient (μ>150,000). With this feature, it is the only insulation material that can be safely used in your air conditioning and cooling systems without condensation problems.



DYNAFLEX PE SA

SA sheets are also produced with self-adhesive properties thanks to the acrylic-based adhesive film reinforced with mesh woven glass fiber. This feature provides significant savings in both time and labor.



DYNAFLEX PE AL-SA

DYNAFLEX PE sheets, produced both with aluminum foil coating and self-adhesive properties, not only offer superior technical features but also provide a stylish and aesthetic appearance. In outdoor environments, they allow for the creation of a decorative look.

Joint Sealant Fillers



Climafill joint sealant fillers, specially produced for joints in prefabricated buildings, gaps around windows and doors, joints in concrete slabs, etc., are manufactured in diameters ranging from 10 mm to 100 mm.

By minimizing the consumption of filling materials such as acrylic or polyurethane mastic, silicone, etc., it offers cost savings to the user. Due to its flexible structure, it adapts to building movements caused by climatic conditions such as summer-winter, hot-cold, and thermal stresses like expansion and contraction, preventing damage to the structural elements.

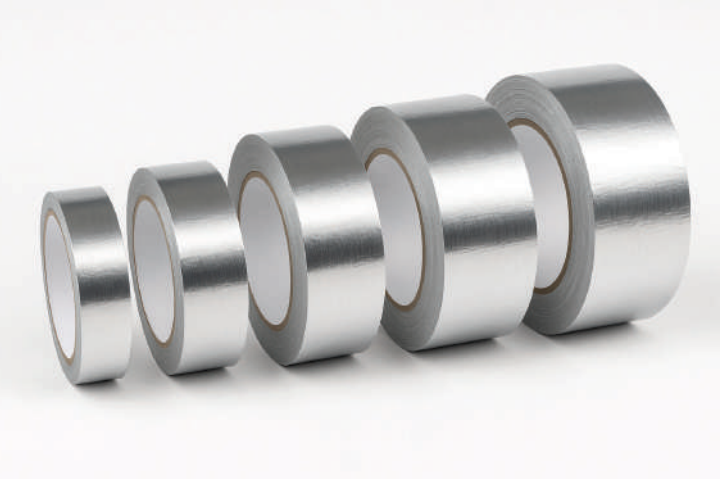
Polyethylene Tape

Tapes made from the same material are used to close seams or gaps that occur during the application of polyethylene foam insulation products. Typically produced in 3 mm and 6 mm thicknesses, the rubber tapes are offered in both smooth and mesh-reinforced options, with adhesive properties.



Aluminum Foil Tape

Aluminum foil tapes are used to seal seams and gaps that arise during the application of aluminum foil coated polyethylene pipes and sheets. These tapes are typically produced in widths of 5 cm, 7.5 cm, and 10 cm and are available in both smooth and mesh-reinforced adhesive options.



PVC Tape

PVC tapes, used in many different areas, show varying characteristics depending on the application. Especially gray and colored PVC tapes are preferred for sealing seams and gaps that occur during the application of uncoated polyethylene insulation products.



Industrial Coating Adhesive

Used for bonding insulation products such as rubber foam, polyethylene, and others, industrial coating adhesives are also used for fixing acoustic panels, soundproofing pipes, adhering sponge, fabric, felt, and similar products, as well as bonding wood and decorative laminates, rubber, leather, cork, and other products. Additionally, it is used for adhering coatings to rigid PVC, edges, and curved surfaces.





DYNAFLEX PE POLYETHYLENE FOAM Technical Specifications Data Document

Temperature Range:	The temperature resistance of DYNAFLEX PE closed-cell polyethylene foam is as follows: In pipes: -45°C, +105°C In sheets and rolls: -80°C, +100°C
Density :	DYNAFLEX PE closed-cell polyethylene foam is produced at an optimal density that provides the best insulation properties. In pipes: 30-35 Kg/m^3 In sheets and rolls: 35-40 Kg/m^3
Thermal Conductivity Coefficient (λ) :	DYNAFLEX PE closed-cell polyethylene foam significantly reduces heat transfer due to the trapped stagnant air in the closed cells and the low thermal conductivity coefficient of the polyethylene material. At 0°C: λ = 0.035 W/m·K At 40°C: λ = 0.040 W/m·K
Fire :	DYNAFLEX PE closed-cell polyethylene insulation products do not spread flames, do not catch fire, do not conduct, and do not drop particles. E Sınıfı (EN 13501-1) In Aluminum Coated Pipes and Sheets: μ ≥ 16000
Sound Insulation:	DYNAFLEX PE closed-cell polyethylene insulation products, which have impact and vibration damping properties, significantly reduce impact noise. 23 dB (DIN 4109)
Outdoor Durability:	DYNAFLEX PE closed-cell polyethylene insulation products provide the best resistance to external environmental conditions. Bare: Good Aluminum Foil Coated: For the lifetime of the installation.
Environmental Impact:	Dyna Profil polyethylene packaging products do not contain asbestos, lead, mercury, or other heavy metals, as well as CFC and HCFC gases. They have no harmful effect on the ozone layer.



About Us...

As Dinamik Isı, we have been serving as a solution partner for 35 years in the construction and building sectors, with our roles evolving from reseller and distributor to importer, representative, and eventually manufacturer.

We began our operations in 1991 with mechanical installation applications and, in 1993, focused our expertise on the insulation sector.

In 1997, we established "Insulation Advisory Centers" to guide investors.

Between 1993 and 2003, we marketed and partially produced insulation accessories such as insulation hanger pins, plastic dowels, and cold room nails.

In 2003, we decided to invest in industry and, in 2004, started the production of CLIMAFLEX polyethylene insulation materials and DYNAJACKET valve jackets.

That same year, we began importing Elastomeric Rubber Foam insulation products and entered the HVAC sector.

In 2005, we expanded our imported product portfolio to include UV-resistant rubber foam and rockwool insulation materials. That year, we also started exporting our PE products under our DYNAFLEX brand.

In 2006, we commissioned our second production line for Climaflex products, doubling our production capacity. Simultaneously, we launched specially designed polyethylene profiles for the packaging sector under the DYNAPROFIL brand.

In 2007, we built a new factory warehouse with a closed area of 2,600 m^2. In the same year, we introduced non-flammable acoustic foam products under the DYNAAKUSTIK brand and began producing tapes for the HVAC sector under the DYNATAPE brand.

In 2008, we began selling Elastomeric Rubber Foam products under our DYNAFLEX RUBBER brand. We expanded our product range for installation insulation and developed engineering solutions tailored to various comfort conditions: DYNAFLEX AL, DYNAFLEX PVC AL-CLAD, and DYNAFLEX AL-PLUS.

In 2009, we started investing in polystyrene foam production for floor and wall insulation. In 2010, we launched these products under the DYNAFOAM brand.

That same year, we commissioned a new 2,500 m^2 production facility to manufacture industrial-specific technical foams and gaskets for sectors such as automotive, electronics, white goods, and small household appliances. Our total indoor area reached 9,000 m^2.

In 2010, we began investing in an XPS production facility with 10,000 m^2 open area and 5,000 m^2 closed area. In June 2011, we started production under the DYNAFOAM BOARD brand and launched our full XPS product range.

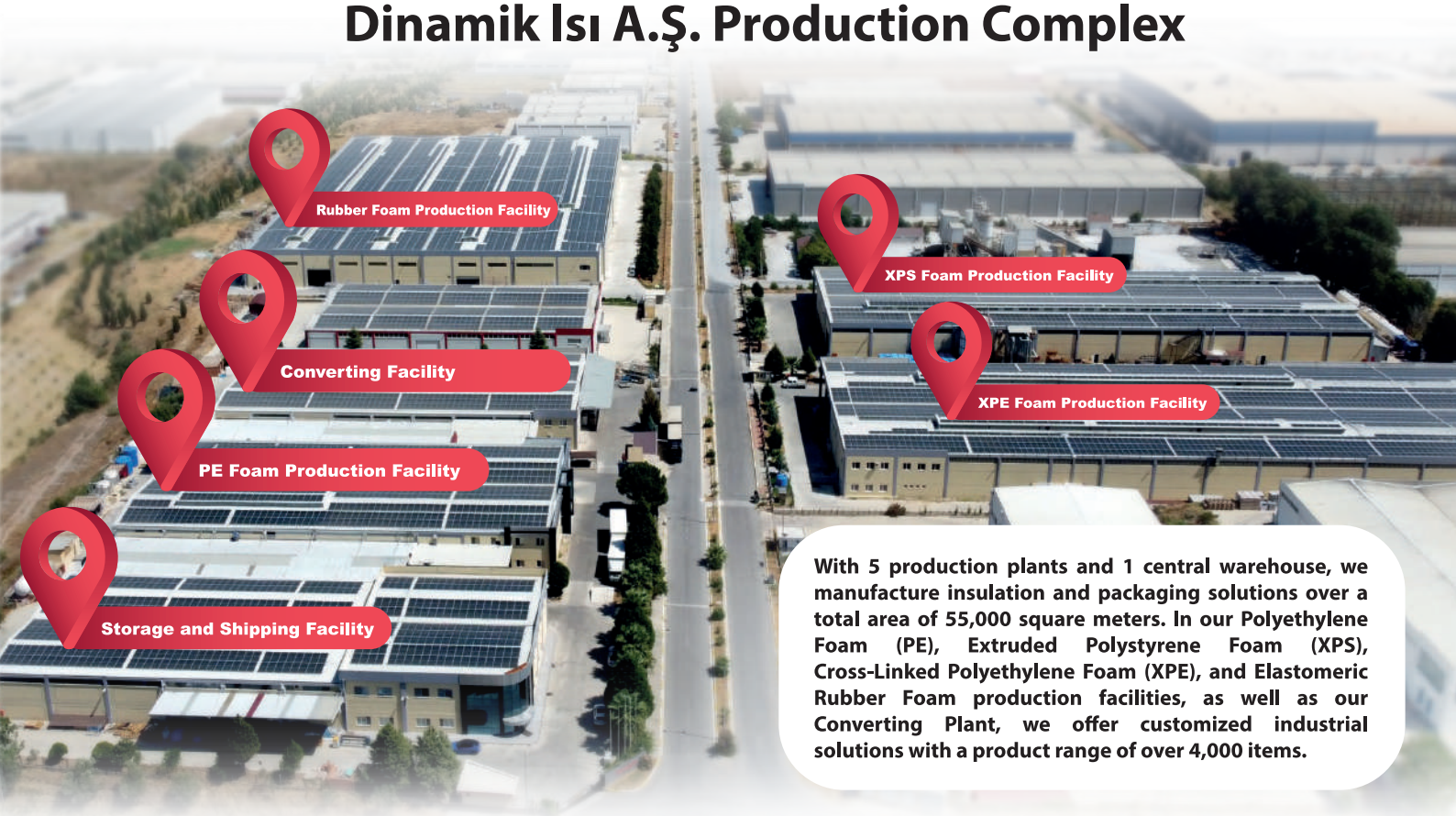
In 2012, we expanded our production line with investments in Die Cut, Slitting, and Traveling Head Press equipment. We continued designing packaging and technical foam products tailored to specific industries.

Between 2014 and 2015, we increased our PE production capacity annually and became the only company in Turkey capable of producing polyethylene sheets up to 25 mm thickness in a single layer.

Following our ISO 9001 and ISO 14001 certifications, we transitioned to an Integrated Management System with OHSAS 18001.

In 2015, we increased the capacity of our XPS production line by 20%, reaching 130,000 m^3.
In 2016, with our investment in the PE line, we began producing high-density flooring backer rods—previously imported—under our DynaProfil EDGE brand.
In 2017, we commissioned our second XPS line, raising our annual production capacity to 250,000 m^3.
That same year, we developed XPS products tailored to different needs:
DYNAFOAM FRIGO (refrigerated truck insulation), DYNAFOAM BRICK (insulation under decorative bricks), DYNAFOAM X-TILE (insulation under tiles), DYNAFOAM PANEL (core filling for sandwich panels)
In 2018, we began producing cross-linked polyethylene (XPE) foam sheets at our new facility with 7,000 m^2 closed area. By 2019, we had transitioned to regular production.
Our DYNAFOAM XPE products, which provide impact and sound insulation, offer solutions to the automotive, white goods, and many other industries. They are also used in areas such as yoga mats, swimming aids, and sealing applications.
In 2020, we achieved our goal of becoming a publicly traded company and began trading on Borsa Istanbul under the ticker symbol DNISI on September 3, 2020.
In 2021, we launched our new 20,000 m^2 Elastomeric Rubber Foam Production Facility investment in the Tire Organized Industrial Zone. In May 2022, we commenced mass production, reaching a total production area of 55,000 m^2.
In 2022, we began installing a rooftop Solar Power Plant (SPP) on this facility.
By 2023, we expanded the rooftop SPP projects to cover all our facilities. Our total installed capacity reached 4,513 kWp, and today we produce all our electricity in-house.
As Dinamik Isı A.Ş., with over 4,000 product types, modern facilities, a qualified team, and a strong belief in production, we continue to grow, manufacture for our country, and serve as your solution partner.

Dinamik Isı A.Ş. Production Complex



With 5 production plants and 1 central warehouse, we manufacture insulation and packaging solutions over a total area of 55,000 square meters. In our Polyethylene Foam (PE), Extruded Polystyrene Foam (XPS), Cross-Linked Polyethylene Foam (XPE), and Elastomeric Rubber Foam production facilities, as well as our Converting Plant, we offer customized industrial solutions with a product range of over 4,000 items.



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