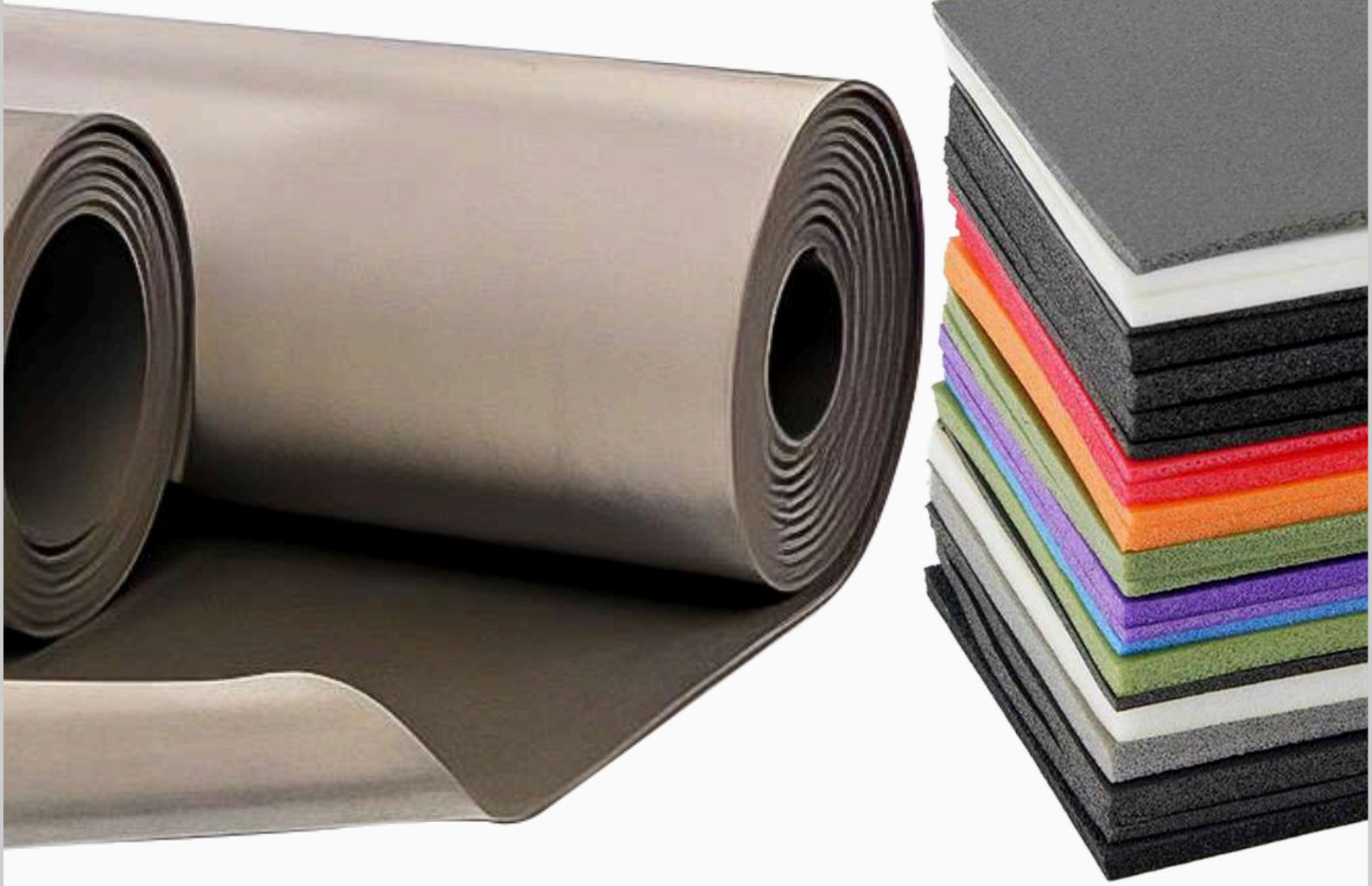


Yalıtımda  
**dinamik**<sup>®</sup>  
Çözüm



**Dynafoam**<sup>®</sup> CROSS-LINKED  
Xpe Cross-linked POLYETHYLENE FOAM

[www.dinamik-izmir.com](http://www.dinamik-izmir.com)

A livable future,  
will come with Dinamik.



## REASONS FOR PREFERENCE

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"><li>• It has a closed cell structure.</li><li>• Waterproof and moisture proof.</li><li>• Capillary water absorption rate is zero.</li><li>• Reduces impact noise.</li></ul> | <ul style="list-style-type: none"><li>• It is environmentally friendly.</li><li>• Does not contain HCFC and harmful/banned chemicals that are dangerous to human health.</li><li>• It is antibacterial.</li></ul> | <ul style="list-style-type: none"><li>• It is not affected by chemicals and environmental conditions.</li><li>• Can be shaped with heat.</li><li>• It can be produced in different thicknesses and sizes.</li></ul> |
|---|---|---|

## CROSS-LINKED POLYETHYLENE FOAM

Cross-Linked Polyethylene Foams are produced by baking the hard plastic polyethylene sheet obtained by extrusion method using chemical cross-linking agent and chemical foaming agent. Thanks to the production technology, the foams produced with closed pores and a smooth surface have superior mechanical and thermal properties due to the cross-linking in their structure.

Dynafoam XPE products, due to their superior properties, are used in many sectors such as construction and automotive sectors, medical, white goods, packaging, etc.

Dynafoam XPE Products can be produced in the form of bare or mesh-reinforced adhesive rolls, as well as optionally in pipes, tapes and laminated with Aluminum Foil, Aluminum Plus, PVC, PET, Film, Fabric, etc.



## USAGE AREAS

CONSTRUCTION INDUSTRY - HVAC INDUSTRY - AUTOMOTIVE INDUSTRY - PACKAGING INDUSTRY - WHITE GOODS AND ELECTRONICS INDUSTRY - SPORTS, ENTERTAINMENT AND MOUNTAINEERING INDUSTRY - HEALTH AND MEDICAL INDUSTRY - BAG AND SHOE INDUSTRY

## CONSTRUCTION INDUSTRY



### UNDER SCREED INSULATION

Before the leveling screed is applied, DYNAFOAM XPE products are placed on the floor. During placement, the joints are connected with 5 cm DYNAFOAM XPE Tape. It is removed upwards from the skirting boards according to the screed thickness. Then, the screed is applied and used for heat and sound insulation.

### WALL INSULATION

In cases where external thermal insulation is not possible, internal thermal insulation is applied. DYNAFOAM XPE Cross-Linked Polyethylene Foams are bonded to interior wall surfaces with suitable adhesives, with one surface covered with decorative film. DYNAFOAM XPE Cross-Linked Polyethylene Foams are cut to the desired dimensions and applied to the wall surface with suitable adhesives.



### UNDER PARQUET INSULATION

DYNAFOAM XPE Cross-Linked Polyethylene Foams are used for heat and sound insulation under parquet. It contributes to heat and sound insulation depending on its thickness. It also increases the life of moisture-sensitive floor coverings such as laminate and solid parquet.

### INSTALLATION INSULATION

DYNAFOAM XPE Cross-Linked Polyethylene Foams; Due to its optimum density, closed cell structure and excellent vapor permeability resistance, it provides thermal insulation and condensation control. It can be used safely in air ducts and piping systems. The products can be produced both bare and coated with aluminum foil.

### ROOF INSULATION

In roofs, along with water insulation, thermal insulation is also of great importance. DYNAFOAM XPE Cross-Linked Polyethylene Foams reflect heat back to the interior environment and provide good insulation due to their reflective surface. This feature creates a great advantage for user and applicators.

### OTHER USAGE

Climate Controlled Room Insulation  
Door/Window Hat , Sound and Water Insulation,  
Heat Insulation in Underfloor Heating Systems,  
Valve Jackets,  
Moisture and Heat Insulation in Terraces and Balconies,  
Animal Shelters

### HVAC INDUSTRY



Air conditioning and ventilation systems are used to ensure the comfort and increase the productivity of people living and working in buildings such as residences, industrial facilities, hotels, shopping malls. In such buildings, the selection of the insulation material to be used in heating, ventilation and air conditioning systems (HVAC) is of great importance in terms of system and human health.

DYNAFOAM XPE which has a closed cell structure, low water absorption rate, does not hold dust and has water vapor diffusion resistance is widely preferred in the HVAC sector.

### AUTOMOTIVE INDUSTRY



Thanks to its lightness and superior sound, heat, moisture and impact insulation properties, DYNFOAM XPE is preferred and used intensively in many areas in the automotive sector in order to reduce vehicle weight and increase driving comfort. In order to reduce fuel consumption and provide better performance, vehicle weight reduction studies are at the top of the automotive sector's list of priorities.

Studies have been carried out for many years to reduce vehicle weight by increasing the use of polymeric-based materials. Polymeric-based materials, which have lower density and higher strength/weight ratio compared to metallic materials, have become one of the most important material groups for the sector due to their easy shaping.

In recent years, it has been seen that vehicle weights can be reduced even further by using Cross-Linked Polyethylene (XPE) foams. However, the use of thinner metallic materials in the automotive sector to reduce vehicle weight causes noise problems in vehicles. Cross-Linked Polyethylene (XPE) foams also provide an excellent solution to noise problems frequently seen in vehicles.

DYNFOAM XPE meets the high standards of the automotive industry with its closed cell structure, such as not absorbing water, providing acoustic insulation and shock absorption. Our company can perform lamination and sizing operations on DYNFOAM XPE products depending on customer requests.

### PACKAGING INDUSTRY

DYNAFOAM XPE sheets are produced for many purposes such as electronic devices such as televisions, computers, etc. that are not intended to be damaged during transportation, measuring and weighing devices, medical devices, sports equipment, and many other sectors. With its flexible structure, DYNAFOAM XPE sheets can absorb mechanical impacts. Since it can be easily cut and shaped, it protects the packaged products from many negativities such as crushing, cracking, shrinkage, breaking, scratching, etc.



#### White Goods and Electronics

DYNAFOAM XPE products are heavily preferred in white goods and electronics sector products due to their lightness, flexible structure, superior mechanical properties and sound, moisture and impact insulation properties. Our company can perform lamination and sizing processes such as heat bonding and coating, splitting, slicing, cutting and shaping of DYNAFOAM XPE products depending on customer requests.

#### Sports, Entertainment and Mountaineering

DYNAFOAM XPE offers countless product alternatives with its products for the sports and entertainment sector due to its lightness, flexibility, antibacterial and not containing any harmful substances such as HFCF.

#### Bag and Shoe

DYNAFOAM XPE products are heavily preferred in the shoe and bag sector due to its superior properties such as lightness, antibacterial, not absorbing water, not causing odor, not containing any harmful substances such as HFCF and being resistant to impacts.

#### Health and Medical

DYNAFOAM XPE can be used in medical and health sector products due to its closed cell, flexible and regular pore structure, anti-bacterial and not containing any harmful substances such as HFCF. DYNAFOAM XPE is used in Medical Packaging, Medical Tapes, Orthopedic and Prosthetic Fillings, Wheelchair Pads and medical cover interior areas.





## DYNAFOAM XPE

### Cross-Linked Polyethylene Foam Technical Specifications Data Document

PROPERTIES	RELATED STANDARD	VALUES
Density	TS EN 1602	20-200 kg/m <sup>3</sup>
Thickness	TS EN 823	3-15 mm
Roll Size	TS EN 822	Width 1- 1,5 – 2 m in required length
Thermal Conductivity	TS B 12667	10,035 W/m.K (0 °C) - 0,039 W/m.K (+10 °C)
Incombustibility (Automotive)	FMVSS 302	< 100 mm/min.
Incombustibility (Construction and Other Industries)	TS EN 13501-1	E (Standard product) - B1 (Product With FR additive)
Compressive Strength*	TS EN 826	For 30 kg/m <sup>3</sup> ; Min. 32 kPa (% 25 Compression) Min. 71 kPa (% 50 Compression) - Min. 184 kPa (% 75 Compression)
Water Absorption	TS EN 1609	0,1 Kg/m <sup>2</sup>
Operating Temperature **	-	- 40 / + 100 °C
Impact Sound Insulation Value	EN 10140-3 ISO 717-2	37 dB
Chemical Strength	-	If does not react with acid, base or any other chemicals
Storage	-	Protect from sunlight, keep away from flame source, do not store in poorly-ventilated closed spaces.
Environmental Impacts	-	Closed porous and cross-linked standart products. Free of Havy metals. HCFC and CFC
CE	TS EN 14313	Intial Type tests are conducted in TEBAR Laboratories.

These are the test values taken in our company's laboratories, technical values may be changed for improvement purposes.

SIZE	Thickness (mm)	3	5	8	10	15
	m <sup>2</sup> /Roll	100	60	50	40	30

According to customer demands, production can be made in 100, 150 and 200 cm widths, desired lengths and densities. The standard color is gray, you can contact us for different color options.

## REASONS FOR PREFERENCE

- It has a closed cell structure.
- Waterproof and moisture proof.
- Capillary water absorption rate is zero.
- Reduces impact noise.
- It is environmentally friendly.
- Does not contain HCFC and harmful/banned chemicals that are dangerous to human health.
- It is antibacterial.
- It is not affected by chemicals and environmental conditions.
- Can be shaped with heat.
- It can be produced in different thicknesses and sizes.

DİNAMİK ISI MAKİNA YALITIM MALZ. SAN. VE TİC. A.Ş.



Headquarters and Factories : 0 232 449 12 50  
İbni Melek Mah. 3.Yol No:20 TOSBİ TIRE/İZMİR  
dinamik@dinamik-izmir.com

İzmir Sales Office and Warehouse : 0 232 437 01 34  
6106/4 Sk. No:4 Dökümcüler Sitesi Işıkent/İZMİR  
satis@dinamik-izmir.com

Technical Product  
Document Number: .....

Date: 01/01/2024

# who are we ?

Dinamik Isi, which started its business in 1991 as a contractor for mechanical installation applications, has expanded its business especially in the field of insulation and has been providing service for 33 years as a dealer, distributor, importer, representative, industrialist and finally manufacturer.

Our company stepped into the insulation sector in 1993 and specialized in this field. As of 1994, it liquidated its other branches of activity and started to specialize only in insulation and guided investors by adopting an innovative approach in the sector with the "Insulation Consultancy Centers" it established in Izmir in 1997 and in Denizli in 1999.

With the investment decision we made in 2003, we gained our industrialist identity by starting to produce CLİMAFLEX Polyethylene Insulation materials and DYNAJACKET Valve and Armature Jackets in 2004. In the same year, we started to import Elastomeric Rubber Foam insulation products used in the Heating, Cooling and Air Conditioning sectors and made it a long-term business plan to produce this product in the future.

In the second year of our production, we registered the importance we give to quality by obtaining the ISO 9001:2000 Quality Management System certificate and updated it to the ISO 9001:2008 version in 2010. We doubled our production capacity in polyethylene products by commissioning the second production line in 2006. We started exporting with the DYNAFLEX brand in 2007 and were awarded the "Company with the Highest Increase in Exports" award by the Aegean Regional Chamber of Industry in 2008.

In 2010, we proved our sensitivity to the environment and received the ISO 14001 Environmental Management System certificate. In 2015, we switched to the Integrated Management System and implemented the OHSAS 18001 Occupational Health and Safety Management System within our organization.

We completed our Elastomeric Rubber Foam Production Facility, which we planned in 2004, tried in 2009 and 2013 but postponed each time for important reasons, and started mass production in 2021.



By 2020, we have put the foundations of institutionalization efforts in place and provided a transparent, auditable, accountable business model that complies with international ethical codes.

In this way, it can easily manage all business processes and at the same time, Dinamik ISI, which has set itself the goal of being listed on Borsa Istanbul within 5 years to support all these processes, completed all these processes in August 2020 and went public on Borsa Istanbul and its shares started to be traded on the stock exchange with the code DNISI on September 3, 2020.

We started to produce electricity by establishing a 4513 KWp Solar Power Plant (SPP) on the 31,600 square meter roof area of our production facilities consisting of a total of 6 buildings. We currently meet all of the electrical energy needs of our facilities from our own SPP Plant.

With 33 years of experience and a product range of over 4,000 products produced in our modern production facilities, we continue to produce and create added value for our country. We continue to grow by adding a new one to our investments every day and walk towards the future with confidence.

## OUR PRODUCTION COMPLEX



Yalıtımda  
**dinamik**<sup>®</sup>  
Çözüm

A livable future,  
will come with Dinamik.



**DİNAMİK ISI MAKİNA YALITIM MALZ. SAN. VE TİC. A.Ş.**



**Headquarters and Factories**  
+90 232 449 12 50  
İbni Melek Mah.  
3.Yol No:20 TOSBİ  
Tire/İZMİR



**Izmir Sales Office and Warehouse :** 0 232 437 01 34  
6106/4 sokak No:4  
Dökümcüler Sitesi Işıkkent-İZMİR



[www.dinamik-izmir.com](http://www.dinamik-izmir.com)