

Arnon Plastic Industries Co. Ltd شركة أرنون للصناعات البلاستيكية المحدودة

CATALOGUE at your disposal



شركة أرنون للصناعات البلاستيكية

ARNON PLASTIC INDUSTRIES CO., LTD.

Established in 1999 as an affiliate of Al Fozan Group of Companies, **ARNON** Plastic Ind. Co. Ltd is one of the leading industrial groups in Saudi Arabia.

Manufacturing its products in 6 modern facilities in Dammam, Riyadh and Jeddah. The company specializes in producing:

- Polyethylene Foam (PE foam) rolls & sheets to serve the industrial, construction and building material sectors.
- Polystyrene foam (PS foam) food packaging solutions to serve the restaurant, bakery, supermarket and poultry sectors
- Polyethylene Terephthalate (PET), Polypropylene (PP) and High Impact Polystyrene (HIPS) to serve the Dairy/Food Manufacturing Industries, restaurants, bakeries, supermarkets and poultry sectors
- Extruded Polystyrene (XPS foam) (healban) for heat insulation in concrete buildings to serve the building material sector with heat insulation boards.

ARNON Plastic Industries is renowned as a leader in its business through its relentless quest to exceed its customers' expectations in quality, service, innovation & products.



POLYETHYLENE (PE) FOAM PRODUCTS

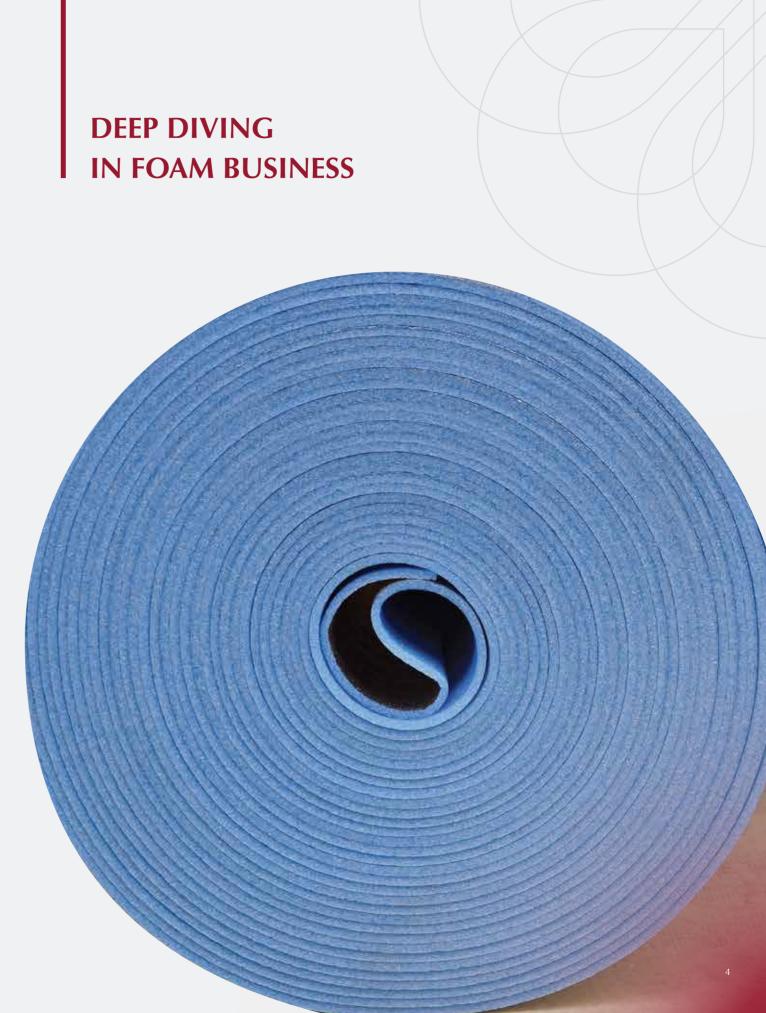
Polyethylene (PE) Foam is produced from polymer assemblage. It has many characteristics that make it distinguished from other competing materials.

- Shock Absorbing
- Water Proofing
- Flexible and Easy Handling
- Easy Laminating
- Easy Punching
- Strong Chemical Resistance

ARNON Polyethylene (PE) Foam is produced in sheets and rolls with different thicknesses each of which have different applications.

POLYETHYLENE (PE) FOAM PRODUCTS INCLUDE:

- 1. Insulation products
- 2. Underlay products



1. INSULATION PRODUCTS

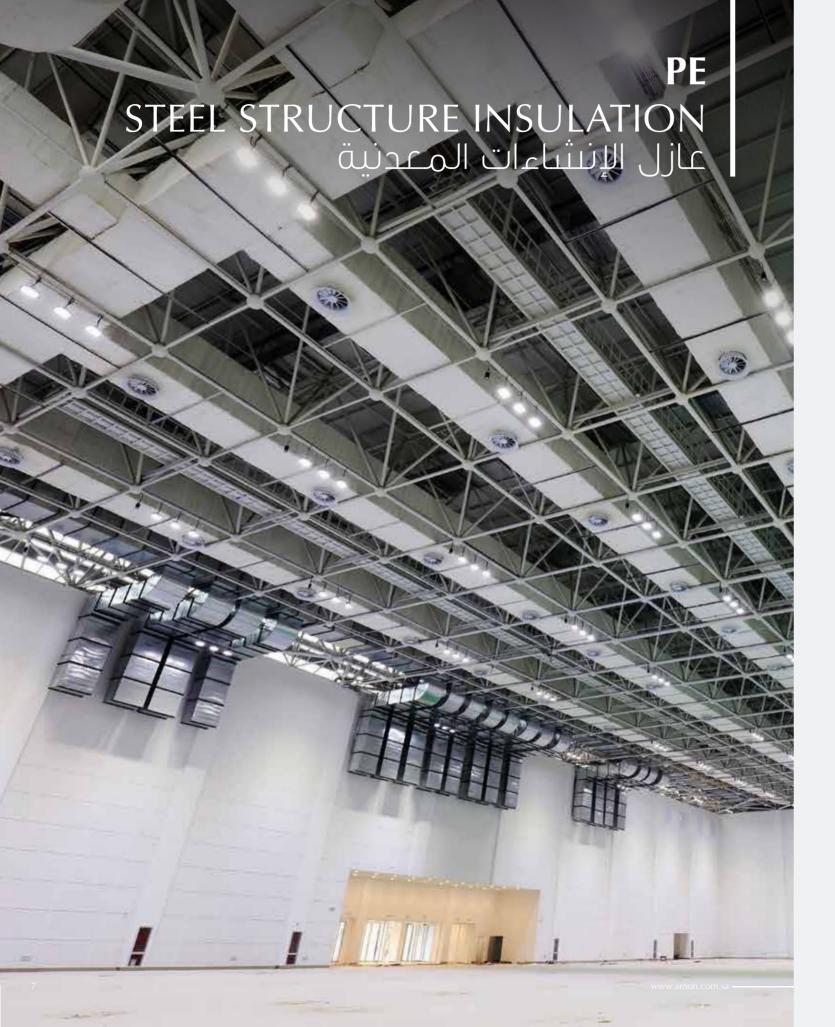
ARNON Polyethylene (PE) Foam is produced in sheets and rolls with different thicknesses.



- Steel Structure Insulation
- Back up Rods

- Pipe Insulation
- Wrapping





مميزات عازل الإنشاءات المعدنية

CHARACTERISTICS OF STEEL STRUCTURE INSULATION

Shock Absorbing

يمتص الصدمات

water Proofing

👤 ضد الماء

Heat Insulating

💂 عازل للحرارة

• Flexible and Easy Handing

مرن وسهل التسليمفيلاف سهل التغليف

• Easy Laminating

سهل الثقب

Easy PunchingStrong Chemical Resistance

مقاوم قوى للمواد الكيميائية

Non-Hazardous

عير خطير/آمن

Thickness	Width	Length
6 mm	1.10	20 m
8 mm	1.10	20 m
15 mm	1.10	20 m

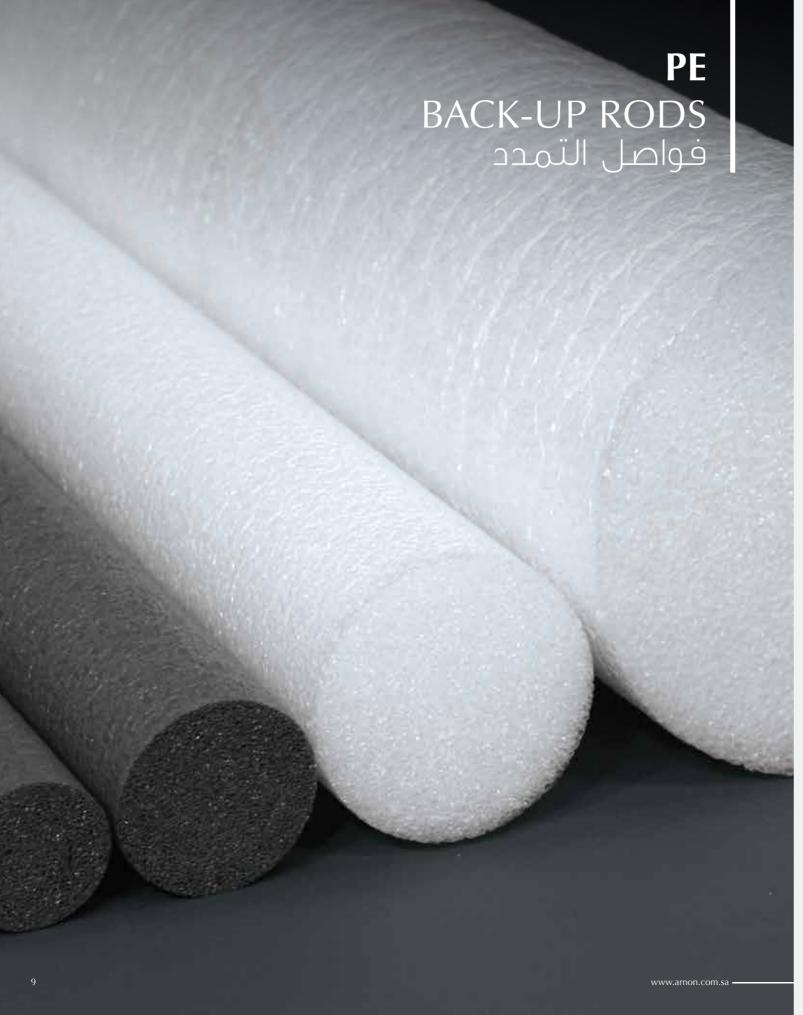


TECHNICAL SPECIFICATIONS -

المواصفات الفنية

PROPERTIES	UNIT			VALUE			Test Method
Thickness	MM	6.0	8.0	10.0	15.0	20.0	ASTM D - 792
Density	G/CM3	0.04	0.04	0.04	0.04	0.04	ASTM D - 792
Cell size	MM	0.82	0.82	0.82	0.82	0.82	ASTM D - 3576
Thermal conductivity	W/M. °C	0.0406	0.0406	0.0406	0.0406	0.0406	ASTM D - 5930
Thermal Resistant	M2.°C/W	0.0739	0.1970	0.02463	0.3694	0.4926	ASTM D - 167
Tensile Strength	KG/CM2	5.6 3.2	3.6 2.7	3.67 2.72	4.5 2.8	4.8 3.1	ASTM D - 638
Elongation	%	105 95	105 90	108 87	98 80	97 75	ASTM D - 638
Heat Dimensional Stability	%	3+	1+	1+	0.75+	0.51+	ASTM D - 6289
		3-	1-	1-	0.75-	0.51-	
Water Absorption	MG/CM2	0.0267	0.37	0.72	0.97	1.2	ASTM D - 570
Moisture Permeability	G/CM2. 24 HR	0.39	0.52	0.64	1.15	1.6	ASTM D - 750
Tearing Strength	KG/CM	2.0	1.5	2.0	2.5	2.8	ARNON METHOD
The Permanent Compression set (100Kg/cm2)	%	9	18	22	26	19	ARNON METHOD

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CHARACTERISTICS OF BACK-UP RODS —

مميزات فواصل التمدد —

DIMENSION	STANDARD PACKAGE / BAG
6	800 m/Bag (8 pcs x 100 m)
8	800 m/Bag (8 pcs x 100 m)
10	800 m/Bag (8 pcs x 100 m)
12	800 m/Bag (8 pcs x 100 m)
15	360 m/Bag (6 pcs x 60 m)
20	200 m/Bag (4 pcs x 50 m)
25	100 m/Bag (4 pcs x 25 m)
30	100 m/Bag (4 pcs x 25 m)
40	100 m/Bag (4 pcs x 25 m)
50	100 m/Bag (4 pcs x 25 m)
60	100 m/Bag (4 pcs x 25 m)

- Used as a filler for decoration purposes and upholstery applications.
- Used as an expansion joint and filler for concrete floors as well as precast, glass and metal cladding walls.
 - تستخدم كحشوة لأغراض الزينة وتنجيد المغروشات.
- تستخدم كفاصل للتمدد في الأرضيات الخرسانية، جدران الخرسانة الجاهزة و جدران كسوة المباني الخارجية المصنوعة من المعادن والزجاج.





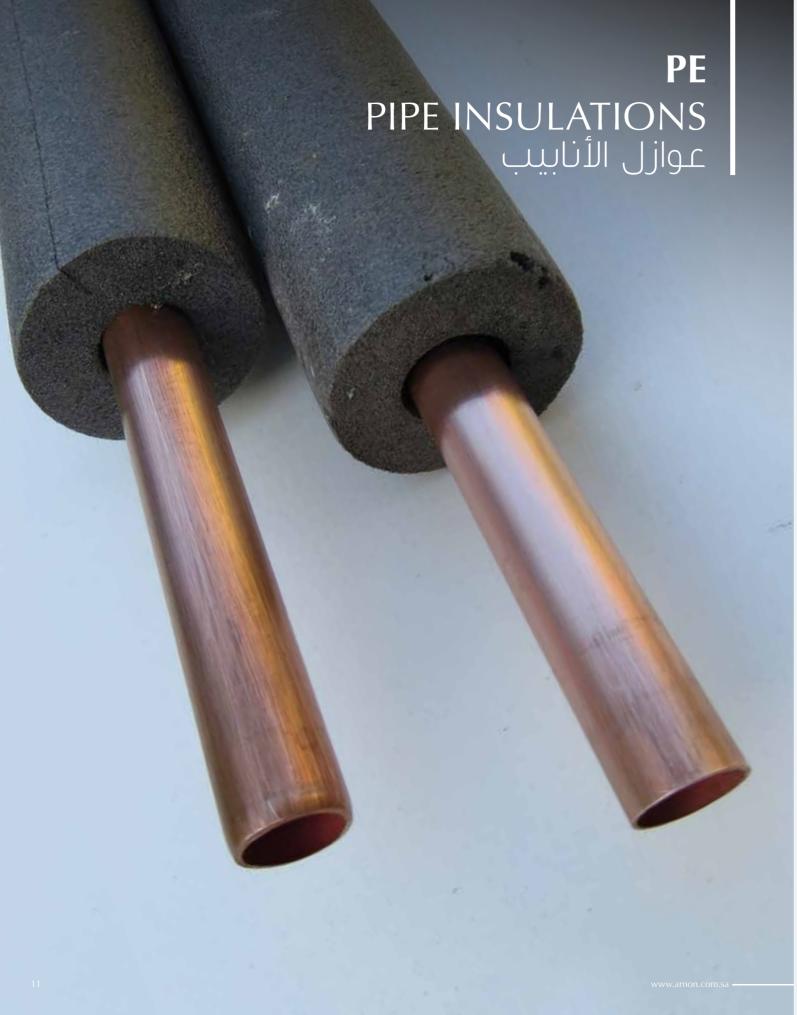
TECHNICAL SPECIFICATION

المواصفات الفنية

PROPERTIES	UNIT	VALUE	Test Method
Density	G/CM ³	0.04	ASTM D - 792
Cell Size	MM	0.82	ASTM D - 3576
Water Absorption	MG/CM ²	0.08	ASTM D - 570
Moisture Permeability	G/CM ² .24hr	0.5	ASTM D - 570
Elongation at Break	%	60	ASTM D - 638
Thermal Conductivity	W/M ² .°C	0.0406	ASTM D - 5930
Permanent Compression Set (100KG _F CM ²)	%	1 - 2	ARNON METHOD

^{*} The recommendation in this bulletin is made without guarantee since the conditions of use are beyond our control.

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CHARACTERISTICS OF PIPE INSULATION

- Fine and closed cellular structure
- Grey color
- Working temperature between (-80 °C to +90 °C)
- Neutral smell
- Excellent flexibility
- Toxibility in fire, 99% carbon dioxide and water
- Practically, no poisonous gases generate in case of perfect combustion
- Outstanding UV resistance





مميزات عوازل الأنابيب

DIMENSION	STANDARD PACKAGE / BAG		
A.PIPE 1/4.GY	1/4" x 2m x 50pcs		
A.PIPE 1/2.GY	1/2" x 2m x 120pcs		
A.PIPE 3/4.GY	3/4" x 2m x 100pcs		
A.PIPE 1.GY	1" x 2m x 85pcs		
A.PIPE 1 1/2.GY	1 1/2" x 2m x 50pcs.		
A.PIPE 1 1/4.GY	1 1/4" x 2m x 65pcs		
A.PIPE 2.GY	2" x 2m x 35 pcs		

- ذات بنية جيدة ومحكمة
 - 🔎 اللون رمادي
- تعمل فی درجة حرارة تتراوح بین –۸۰ درجة مئویة + ۹۰ درجة مئویة
 - 🕒 لارائحة لها
 - خات مرونة ممتازة
- في حالة الحريق الغارات المنبعثة ٩٩٪ ثاني أكسيد الكربون والماء
 - عمليا، لا تولد غازات سامة في حالة الاحتراق المثالي
 - مقاومة للأشعة فوق البنفسجية

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CHARACTERISTICS OF PROTECTIVE WRAPPING

Arnon protective packaging products are available as rolls or pieces designed to work as a protective cushion, impact absorbent and edge protector during transportation of products, like furniture, ceramic ware, glass ware, electronics, office equipment, aluminum profiles, etc.

مميزات التغليف الواقى



لغات أو قطع أرنون الواقية مصممة للعمل كوسادة واقية أثناء نقل المنتجات.

حيث أنها تمتص الصدمات وتقوم بحماية المنتجات خلال نقلها من مكان إلى أخر (الأثاث، و أدوات السيراميك، و الأواني الزجاجية، و الأدوات الإلكترونية، و تجهيزات المكاتب، و منتجات الألمونيوم، و الأبواب ، وإلخ)







U-ROD FOAM

ROUND FOAM

SHEET FOAM

2. UNDERLAY PRODUCTS

ARNON Polyethylene (PE) Foam is produced in sheets and rolls with different thicknesses.



Flooring underlay is a cost effective method to add thermal and sound protection to your floor.

- Parquet Underlay
- Arnon Superlay Underlay
- Carpet Underlay





مميزات عازل الباركية —— CHARACTERISTICS OF PARQET UNDERLAY

- Extends life of wooden and laminated floorings
- Doesn't absorb water
- Reduces noise transfer in multi layered buildings
- Stops heat-cold transfer from and to the wooden floor
- Non-poisonous and chemical resistant
- Limits the sound

- يطيل عمر الأرضيات الخشبية
 - 🔎 لايمتص المياه
- يمتص صدمة حركة الأقدام في المباني المتعددة الطبقات
 - يمنع انتقال الحرارة من وإلى الأرضيات الخشيية
 - غير سام ومقاوم للمواد الكيميائية
 - 🌘 يحد من الصوت





TECHNICAL SPECIFICATION -

المواصفات الفنية

PROPERTIES	UNIT	VALUE		Test Method
Thickness	MM	2.0	3.0	ASTM D - 792
Density	G/CM3	0.04	0.04	ASTM D - 792
Cell size	MM	0.82	0.82	ASTM D - 3576
Thermal conductivity	W/M. °C	0.0406	0.0406	ASTM D - 5930
Thermal Resistant	M2.°C/W	0.0493	0.0739	ASTM D - 167
Tensile Strength	KG/CM2	5.34 3.2	5.6 3.2	ASTM D - 638
Elongation	%	110 110	105 85	ASTM D - 638
Heat Dimensional Stability	%	4+	3+	ASTM D - 6289
		4-	3-	
Water Absorption	MG/CM2	0.017	0.267	ASTM D - 570
Moisture Permeability	G/CM2. 24 HR	0.24	0.39	ASTM D 750
Tearing Strength	KG/CM	1.95	2.0	ARNON METHOD
The Permanent Compression set (100Kg/cm2)	%	7	9	ARNON METHOD

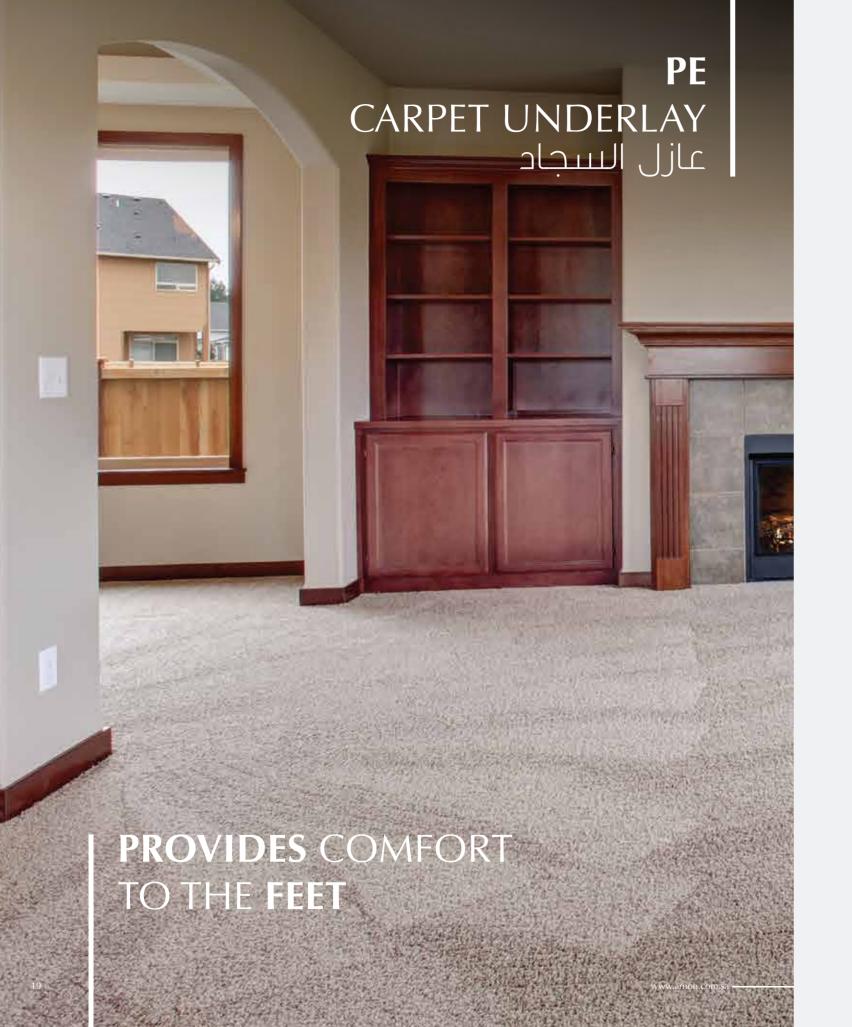








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مميزات عازل السجاد ——— CHARACTERISTICS OF CARPET UNDERLAY

- Extends the life of the carpet
- Doesn't absorb water
- Provides comfort to the feet
- Provides a silent step to reduce noise transfer in multi-layered buildings
- Stops heat-cold transfer from the floor to the carpet
- Works with all kinds of glue
- Non-poisonous and chemical resistant
- Doesn't need wooden grippers at the room's floor angles
- Doesn't need glue tape under the carpet
- Price is very competitive

- بطبل عمر السحاد
 - لايمتص المياه
 - مريح للأقدام
- يمتص صدمة حركة الأقدام في المباني المتعددة الطبقات
 - يمنع انتقال الحرارة و البرودة من الأرضيات إلى السجاد
 - فيرسام ومقاوم للمواد الكيميائية
 - يمكن استخدام جميع أنواع الغراء حتى أرخصها
 - لايحتاج إلى الزوايا الخشبية لتثبيته
 - لا يحتاج إلى الشريط اللاصق بينه وبين السجاد
 - 🕒 سعرہ منافس حداً





TECHNICAL SPECIFICATION

المواصفات الفنية

PROPERTIES	Test Method	Test Result
Cellular structure	Very fine and closed	
Thickness	ASTM D - 729	10mm - 15mm
Density	ASTM D - 729	0.04g/cm3
Cell size	ASTM D - 3576	0.82mm
Permanent		9% for 100 kgf/cm2
Chemical resistant	ASTM D - 453-56T	Excellent
Water absorption	ASTM D - 570	0.37mg/cm2.24hr
Moisture permeability	ASTM D - 750	Almost
Poisonous gases in case of perfect combustion		None
Weight		21-23 kg/roll
Wear guarantee		Life time of the carpet











CHARACTERISTICS OF ARNON SUPERLAY

The footstep pressure allows humid air to get extracted and replaced with fresh air through 70 vented ports/each per each square meters. This process:

- Allows your carpet and floor to breath
- Keeps the underfloor dry
- Prevents moisture, mold condensation and bad odors
- Provides an outstanding acoustic insulation
- Provides extra comfort to the feet

All these super characteristics make

ARNON O

SUPERLAY



the best product in the market

مميزات لباد أرنون ذو فتحات تهوئة

سوف تسمح عملية المشي والضغط على السجاد المدعم بلباد أرنون باستبدال الهواء الرطب من تحته بهواء نقى وذلك من خلال ٧٠ منفذ تهوئة في كل متر مربع . هذه العملية :

• تسمح للسجاد والارضيات بالتهوئة.

تمتص صوت حركة الأقدام.

• تحافظ على أرضية جافة.

- توفر راحة إضافية للقدمين أثناء المشى.
- تمنع الرطوبة والعفن من التجمع وتمنع انبعاث الروائح الكريهة.

من أفضل المنتجات في السوق ^ ARNON SUPERLAY

TECHNICAL SPECIFICATION -

المواصفات الفنية

PROPERTIES	TEST METHOD	TEST RESULT
Composition		Bonded Polyethylene Foam
Cellular structure	Very fine and closed	
Thickess	ASTMD - 729	10 mm
Density	ASTMD - 729	0.03g/cm3
Cell size	ASTMD - 3576	0.82mm
Permanent compression		9% for 100Kgf/cm2
Chemical resistant	ASTMD - 543 - 56T	Excellent
Water absorption	ASTMD - 570	0.37 mg/cm2 .24hr
Moisture permeability Poisonous gases in case	ASTMD - 750	Almost
Of perfect combustion		None
Weight		21-23 Kg/roll
Wear guarantee		Life time of the carpet





















HEAT BAN INSULATION PRODUCTS



ENERGY SAVING IS A RESPONSIBILITY









wallban

wallban extruded polystyrene boards will prevent the loss of energy through external walls of buildings.

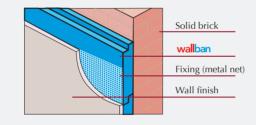
wallban is good for both internal insulation as well as external insulation, which provides support to any finishing works such as plastering, dry lining and rendering.

CHARACTERISTICS OF WALLBAN —

- Density: 30 32 kg/m3.
- Thickness: 25, 30, 40, 50, 60, 70, 75, 100 mm.
- Board size: 600 x 1250 mm.
 Edges: Rebated edges or straight.

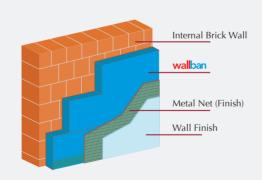
INTERNAL WALL INSULATION

Internal Wall Insulation type involves applying a 30-50 mm insulation layer on the inside of walls covered with Composite board (gypsum board + Wallban) fixed with adhesive and possibly metal fasteners.



EXTERNAL WALL INSULATION

The design and installation of external wall insulation is a specialist job. It is strongly recommended to use certified materials and components. The typical method includes attaching standard size insulation boards to the wall and finishing with a reinforced render or cladding.



CAVITY WALL INSULATION

Many constructions are built with cavity walls. There is an outside wall and an inside wall with a gap between the two walls. This gap will be filled with XPS insulation boards.





TECHNICAL DATA -

PROPERTIES	TEST METHOD	UNIT	WALLBAN		
Density	ASTM D1622	kg/m³	30-32		
Thermal Conductivity @ 24°C mean temperature	ASTM C518	W/m·k Btu-in/h·ft²°F	0.03 0.21		
Compressive Strength @ 10% Deflection	ASTM D1621	kPa	320 - 350		
Water Absorption by Submersion	ASTM C272	% by Volume	≤1		
Water Vapor Permeability	ASTM E96-00	Perm-inch	0.6 - 0.8		
Dimensional Stability	ASTM D2126	% Change	<0.2		
Flexural Strength	ASTM C203	kPa	380 - 400		
Fire Classification (Exova - Germany)	DIN4102	Building Mat Class	B1(difficult to ignite)		
Underwriters Laboratory -UL 723 = ASTM E-84 Standard test method for surface burning characteristics of Building materials under code ASTM C 578-13	UL-723 = ASTM E - 84	Fire spread + smoke developed index	10 - 25 65 - 120		
Available Sizes of the xps sheets	Width 600mm	m Length 1250 mm Length 2500 mm(optional			
Thickness	25mm, 30mm, 40mm, 50mm, 60mm, 70mm, 75mm, 100mm				
Edge Profile	Ship Lap Edge				

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XPS HEAT BAN هیت بان

roof ban

The long-term low thermal conductivity is necessity in any thermal insulation material for builders and architects. It's excellent moisture resistance and inherent thermal performance properties has made **roofban** the ideal insulation material for roof application.

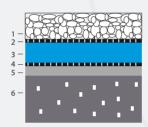


CHARACTERISTICS OF ROOFBAN

- Offers high resistance to heat flow
- Possess very high compressive strength
- Resistant to water absorption.
- The waterproofing membrane is protected from extreme thermal stress and from the various effects of the weather.
- Possess closed and uniform cell structure
- The inverted roof system reduces maintenance cost of the roof
- Long term efficient insulation capability.

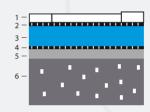
ROOF APPLICATION

1. Insulation with Top Layer Gravel protection.



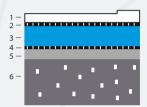
- 1. Gravel layer.
- 2. Separation layer.
- 3. roofban
- 4. Waterproofing membrance.
- 5. Screed to fall.
- 6. Roof deck.

2. Insulation with Top Layer Concrete pavers.



- 1. concrete pavers.
- 2. Separation layer.
- 3. roofban
- 4. Waterproofing membrance.
- 5. Screed to fall.
- 6. Roof deck.

3. Insulation with Top Layer reinforced with SITU Concrete.



- 1. Concrete slab (SITU).
- 2. Separation layer.
- 3. roofban
- 4. Waterproofing membrance.
- 5. Screed to fall.
- 6. Roof deck.

TECHNICAL DATA —

PROPERTIES	TEST METHOD	UNIT	ROOFBAN	
Density	ASTM D1622	kg/m³	32-35	
Thermal Conductivity @ 24°C mean temperature	ASTM C518	W/m·k Btu-in/h·ft²°F	0.028 0.2	
Compressive Strength @ 10% Deflection	ASTM D1621	kPa	400 - 450	
Water Absorption by Submersion	ASTM C272	% by Volume	≤1	
Water Vapor Permeability	ASTM E96-00	Perm-inch	0.5 - 0.7	
Dimensional Stability	ASTM D2126	% Change	<0.2	
Flexural Strength	ASTM C203	kPa	400 - 425	
Fire Classification (Exova - Germany)	DIN4102	Building Mat Class	B1(difficult to ignite)	
Underwriters Laboratory -UL 723 = ASTM E-84 Standard test method for surface burning characteristics of Building materialsunder code ASTM C 578-13	UL-723 = ASTM E - 84	Fire spread + smoke developed index	10 - 25 65 - 120	
Available Sizes of the xps sheets	Width 600mm Length 1250 mm Length 2500 mm(optional			
Thickness	25mm, 30mm, 40mm, 50mm, 60mm, 70mm, 75mm, 100mm			
Edge Profile	Ship Lap Edge			



floor ban

The excellent mechanical strength of **floorban** extruded polystyrene foam possess a remarkable load bearing capacity with inherent insulation properties. This is suited for all kinds of floors in warehouse, residential and commercial buildings and cold storage.

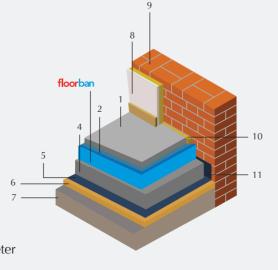
CHARACTERISTICS OF FLOORBAN -

- High compressive strength.
- Long term high insulation.
- High resistance to water absorption.
- Insulation saves energy and money.
- Density: 38-45 Kg/m3
- Board size: 1250 × 600 mm
- Thickness: 25, 30, 40, 50, 60, 70, 75, 100 mm
- Edges: Rebated edges or straight.

floorban is the ideal insulation for high load bearing floors such as those found in cold stores, warehouses, parking areas.

FLOORBAN BOARDS CAN BE USED AS A WORKING SLAB

- 1. Flooring screed or boarding
- 2. Separating / slip layer
- 3. floorban
- **4.** Concrete floor slab
- **5.** Damp proof membranc (under slab position shown)
- **6.** Sand blinding
- 7. Hardcore
- 8. Wall lining & skirting
- **9.** Existing external wall
- **10.** Insulation strip at screed perimeter
- **11.** DPC





TECHNICAL DATA -

PROPERTIES	TEST METHOD	UNIT	FLOORBAN	
Density	ASTM D1622	kg/m³	38-45	
Thermal Conductivity @ 24°C mean temperature	ASTM C518	W/m·k Btu-in/h·ft²°F	0.026 - 0.027 0.18 - 0.19	
Compressive Strength @ 10% Deflection	ASTM D1621	kPa	500 - 700	
Water Absorption by Submersion	ASTM C272	% by Volume	≤1	
Water Vapor Permeability	ASTM E96-00	Perm-inch	0.7	
Dimensional Stability	ASTM D2126	% Change	<0.2	
Flexural Strength	ASTM C203	kPa	510 - 525	
Fire Classification (Exova - Germany)	DIN4102	Building Mat Class	B1(difficult to ignite)	
Underwriters Laboratory -UL 723 = ASTM E-84 Standard test method for surface burning characteristics of Building materialsunder code ASTM C 578-13	UL-723 = ASTM E - 84	Fire spread + smoke developed index	10 - 25 65 - 120	
Available Sizes of the xps sheets	Width 600mm	Length 1250 mm Length 2500 mm(option		
Thickness	25mm, 30mm, 40mm, 50mm, 60mm, 70mm, 75mm, 100mm			
Edge Profile	Ship Lap Edge			

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Arnon Plastic Industries Co. Ltd

شركة أرنون للصناعات البلاستيكية المحدودة

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