

INSUL^{OGY} PARAMOUNT



PARAMOUNT FOAMS PVT. LTD.
THERMAL & SOUND INSULATION

Company Profile

"Paramount Foams Pvt. Ltd." already have the expertise and knowledge of manufacturing of plastic foam products in Sheets, Rolls, Pipes for Insulation/Automotive/HVAC/PEB Defence etc. and for Yoga Mats, Baby Play Mats and for sports industry.

Based on experience of **Mr. Ajay Gupta** (MSC. MEngg. in Polymer science & Technology from University of Sheffield, UK), is the first person to introduce and manufacture Crosslinked Polyethylene Foams in India. **Paramount Foams Pvt. Ltd.** has now started "Insulogy" Brand XPE/XLPE foam for Thermal & Sound Insulation.

"Insulogy" (Insulation + Technology) by Paramount is Crosslinked Closed cell Polyethylene foam produced by crosslinking the Ethylene molecules TRI -Dimensionally thus providing very good mechanical strength and thermal Insulation properties. It is also made in Flame Retardant Grade and open cell structure for sound Insulation.

"Insulogy" XPE/XLPE by Paramount has very high moisture resistance so it retains its Insulation properties in humid environment for a very long period without any additional moisture barrier.

"Insulogy" XPE/XLPE by Paramount also provides excellent sound Insulation and capable of dampening vibrations.



In addition to thermal insulation of Air-ducts and pipes, Insulogy by Paramount provides effective solutions in Roof Insulation/Underdeck Insulation/Wall Insulation etc in case of high temperature zones Insulogy by Paramount reduces the heat flow drastically even when using low thickness material.

Insulogy by Paramount is also available laminated with metalized foil/Aluminium Foil/UV Barrier film/Alu Pet Foil.

We offer expert and cost-effective material right from indigenous compound formation to production of the finished product.

WHY INSULOGY BY PARAMOUNT

Three pillars behind every roll we ship

What manufacturers and distributors across India rely on when they specify Insulogy by Paramount.

PERFORMANCE THROUGH INNOVATION

Over 25 years of XPE foam development goes into every grade we make, engineered for consistent density, low thermal conductivity, and dependable performance across demanding applications.

SUSTAINABLE & EFFICIENT SOLUTIONS

Our closed-cell foam cuts energy loss across HVAC, building, and industrial systems, stays CFC and HCFC free, and holds its insulating performance for the full life of the installation.

PARTNERSHIP BUILT ON TRUST

We supply wholesalers, distributors, and institutional buyers at scale, from sheets and rolls to pipes and finished products, with spec guidance, competitive pricing, and lead times you can plan around.



THERMAL & SOUND
INSULATION

XPE/XLPE Foam

Chemical crosslinked Polyethylene Foam

Closed- Cell Chemical Crosslinked Polyethylene Foam (XPE/XLPE) is manufactured by extruding LDPE resin, a crosslinking agent and foaming agent through continuous oven at high temperature. XPE/XLPE foam is chemically stable, difficult to decompose, odorless and flexible.

Product Name: Cross-linked polyethylene foam

Material: LDPE /EVA

Density Range: from 25 to 120 kg/m³

Expansion Ratio: 8 to 35

Thickness: 2 to 12 mm (single layer) to 100 mm (multilayer)

Width: 1600 mm maximum

Color: Black, White, Grey or customized

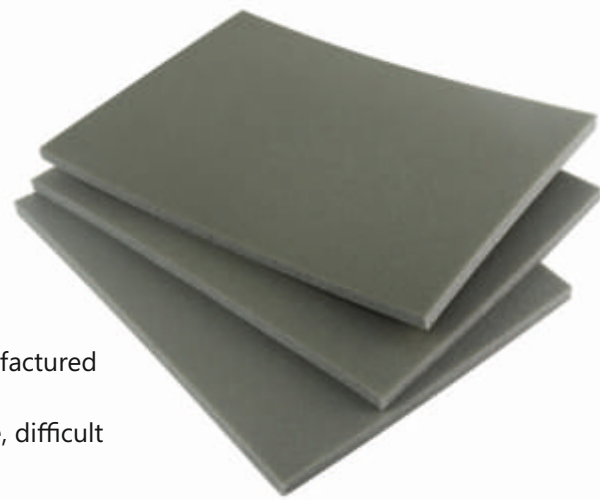
Shore Hardness: 13 - 70° A

Thermal conductivity: 0.034w/m.k

Working temperature: (-40°C TO 120° C)

Function: Thermal insulation, waterproofing and Sound insulation

Application: HVAC & Air conditioner, Automotive, Defence, Building and Construction, Sports & Leisure, Shoes, Mats etc.



**Thermal
Insulation**

Waterproof

**Sound
Insulation**

**Shock
Absorption**

**Thermal
Forming**

**Fire
Retardant**

XPE FOAM TECHNICAL PARAMETER

Test Item		8 times	10 times	15 times	20 times	22 times	30 times	35 times
Density (kg/m ³)		125±15	100±10	66±8	50±6	40±4	33±3	28±3
Shore Hardnes (°)		50-60	45-50	35-45	30-35	25-30	18-25	13-18
Tensile Stength (Mpa)	TD	≥0.9	≥0.7	≥0.5	≥0.35	≥0.3	≥0.2	≥0.15
	MD	≥1.0	≥0.8	≥0.6	≥0.38	≥0.35	≥0.25	≥0.2
Elongation (%)	TD	≥125	≥110	≥100	≥80	≥80	≥80	≥70
	MD	≥125	≥120	≥110	≥90	≥90	≥90	≥80
Tearing Stength (KN/m)	TD	≥8	≥6	≥4	≥2.5	≥2	≥1.5	≥1.3
	MD	≥8	≥6	≥4	≥2.5	≥2	≥1.2	≥1.2
Compressed Distortions (%) 23 ⁰ ±2 ⁰ C, 22h		≥3	≤5	≤7	≤8	≤9	≤10	≤11
Dimension Change (%) 70± 2 ⁰ , 22h	TD	≥-4	≤-4	≤-4	≤-6	≤-6	≤-6	≤-6
	MD	≤-6	≤-6	≤-6	≤-8	≤-8	≤-8	≤-8
Water Absorption (g/cm ²) 23 ⁰ ±2 ⁰ C, 24h		≤0.02	≤0.03	≤0.03	≤0.04	≤0.04	≤0.05	≤0.05
Thermal Conductivity (w/m.k)		≤0.084	≤0.073	≤0.065	≤0.055	≤0.049	≤0.035	≤0.034

TD: Transverse direction; MD: Machine direction

XPE/XLPE Foam Tubing

Foam Pipe Insulation for Air Conditioning & Chilled Water Pipeline

- Main material: XPE/XLPE Foam Laminated with UV Barrier Film/ Met Foil/ Alu Foil/Alupet Foil
- Heat Insulation, High Resilience, Wide Range of Uses
- Thickness can be ordered according to the demand of customer.
- Length: 2 meters to as per customer requirement.
- XPE/XLPE insulation pipe: thickness from 3mm to 35mm.
- Character: Anti-UV, good heat resistance, nill water absorption
- Foam color: Grey, White, or can be customized

TECHINCAL SPECIFICATIONS

S No.	Properties	Technical Details
1.	Fire retardant	Class-1 as per BS476 Part-7 Class-O as per BS476 Part-6
2.	Thermal Conductivity	23°C -- 0.0314 W/m°k 40°C -- 0.034 W/m°k
5.	Average Density	30 ± 3 Kg/m3
6.	Working temperature	-40°C + 115°C
7.	Water Vapour resistance (μ)	12805
8.	Heavy Metals for RoHS Pollution	Passed (Directive 2002/95/EC)
9.	Oxygen Index	27.7% (ASTM D 2863)
10.	CFC / HCFC Content	Nill

Specifications of XPE/XLPE Foam Insulation Tube

1. Flexible material
2. Low density
3. Closed-cell Structure.

Feature of XPE/XLPE Foam insulation tube :

1. Low thermal conductivity
2. Nill Water Absorption Rate.
3. Good Aging Resistance.
4. Simple and Easy Installation.
5. Anti-UV/CFC Safe Free/Anti Corrosive.



Oxide-Acetete Foam

For Hot and Cold Chilled Water Piping, HVAC Ducting/Underdeck for Rcc Metallic Roofing & Walls.

Oxide-acetete foam is specially developed for extra softness and high flame retardant and weather resistant properties. It can be used for thermal insulation as well as acoustic insulation.



A perfect blend that has the mechanical strength of XLPE and the softness of Rubber



TECHNICAL SPECIFICATIONS

S.No.	Properties	Technical Details
1.	Material	Oxide-acetete Foam
2.	Physical Appearance	Soft & Flexible
3.	Density	30 ~ 40 kg/m3
4.	Fire Test a) Surface Spread of Flame b) Fire Propagation Index	Class 1 BS476 Part-7 Class O BS476 Part-6
5.	Color	Black or can be customised
6.	Service Temperature Range	- 40° C to 120° C
7.	Ultra Violet Rays Impact	Negative, Bare Foam Is UV Resistant
8.	Thermal Conductivity	0.034 W/MK at 23° C
9.	Smoke & Toxicity Index	Passed
10.	Fungal Resistant ASTM G-21	No growth observed
11.	Bacteria Resistance	Negative (No growth observed)
12.	Mold Growth	Negative (No growth observed)
13.	Water absorption	Negligible
14.	CFC/HCFC	Free
15.	RoHS	Passed

Open Cell Acoustic Foam

Open Cell Oxide-Acetate Foam

Material: Open Cell Oxide-Acetate Foam

Density: 30~40Kg/m³

Thickness: 2.0~10mm (single layer) to 100mm (multilayer)

Width: Maximum 1500mm

Color: Black, White, Grey or customized

Working temperature -40°C~120°C

Function: Sound insulation

Application: HVAC, Automotive & High-speed train, Studios, Cinema etc.



PRODUCT SPECIFICATION

Test item	Unit	Performance parameter
Density	Kg/m ³	30~40 kg/m ³
Aging test	/	Pass
Flame retardant grade	/	UL HF-1
Sound absorption coefficient		NRC-0.5 For 10mm

PRODUCT FEATURES

- Lightweight, eco-friendly, and resistant to chemical corrosion.
- High porosity for excellent sound absorption.
- Excellent processing capabilities; can be laminated and die-cut.
- Wide application range; usable in temperatures from -40°C to 120°C.
- Fire-resistant with UL 94 HF-1.

PRODUCT APPLICATIONS

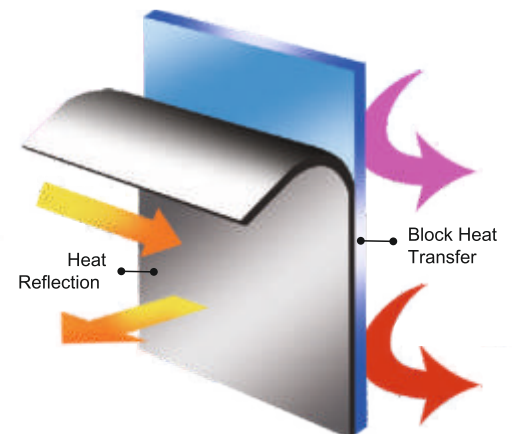
- Soundproofing material for air conditioning units.
- Thermal insulation and noise reduction material for high-speed trains and vehicles.
- Construction applications, such as soundproof flooring underlayment and wall insulation materials, offering moderate elasticity and sound absorption.
- Packaging materials for the electronics industry.

Roof Thermal Insulation/ PEB Roof Insulation



XPE/XLPE Foam Insulation

- XPE/XLPE Foam+pure aluminum foil/ alupet foil & metpet foil
- Reflecting up to 95% of radiant heat
- Excellent fire properties
- Excellent acoustic insulating properties
- Environment/ Eco-friendly and fibre-free
- Foam Density: Standard $25 \pm 3 \text{ kg/m}^3$
- Width: Max 1500mm, can be customised
- Thickness: 3mm-12mm (Single Layer), Upto 100mm (Multi Layer)
- Color: Grey, Black, White or customised



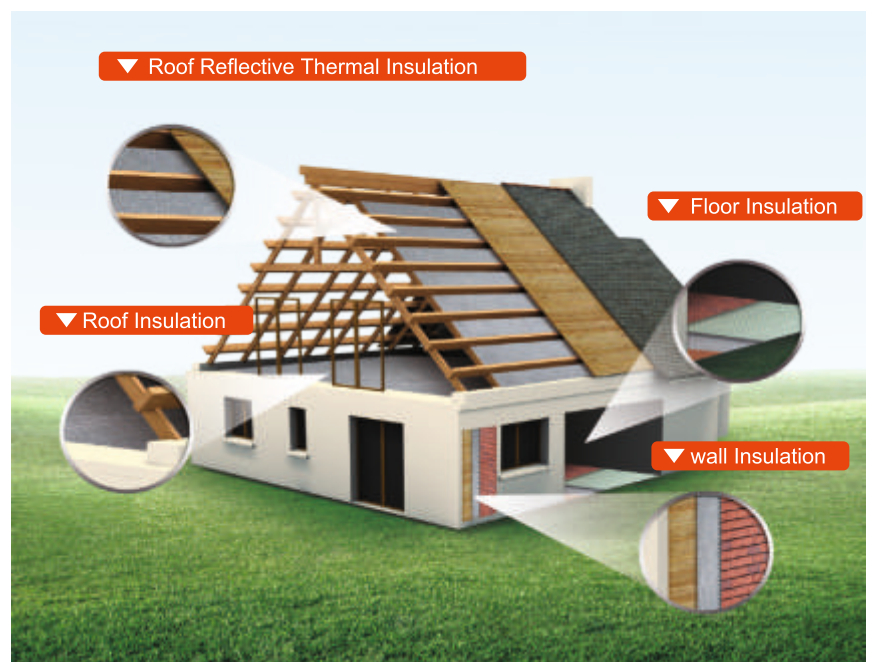
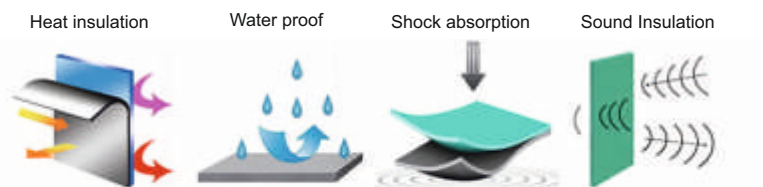
Roof / Wall / Floor Insulation

XPE/XLPE Double Sides Laminated
with Aluminum Foil/Alupet/Metpet

Reflecting up to 95% radiant heat, allowing for cool internal conditions in hot and humid climates.

Excellent for building's insulation, like PEB sheds, home, workshops, factories etc.

- Moisture barrier, water-proof, heat insulation, energy saving
- Light, soft, dust-free, flame retardant, easy cutting and installing
- No odor, environmental-friendly
- Low thermal conductivity excellent heat & thermal insulation
- Keep warm in winter, cool in summer
- Foam Density: $28 \pm 3 \text{ kg/m}^3$
- Color: Grey, Black, White or customised
- Usage: Roof, Wall, Floor



Thin/IXPE Foam

Irradiated Cross linked Polyethylene Foam

Density: 25~200Kg/m³

Times: 5~35

Foam Thickness: 0.8-3mm

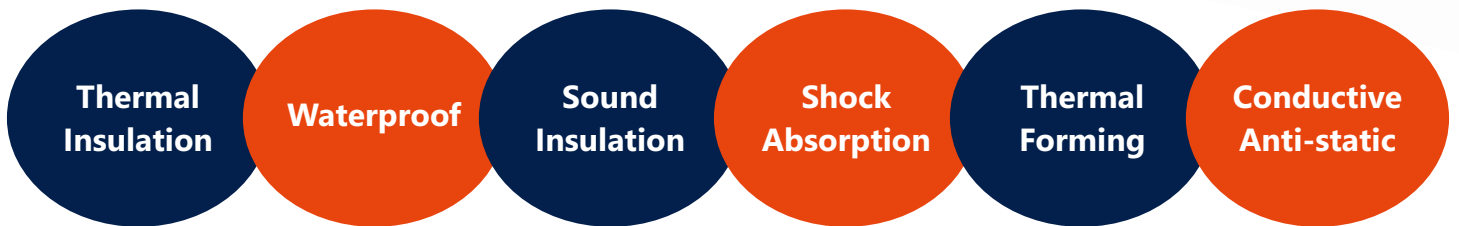
Width: Max 1500mm

Color: Black, White, Grey

Thermal conductivity: 0.033 w/m.k

Working temperature (-40°C to 120°C)

Application: Tapes, Under Floors Tiles, Automative, Defence, Packaging .



IXPE FOAM TECHNIC PARAMETER

Test Item		5 times	8 times	10 times	15 times	20 times	25 times	30 times	35 times
Density (kg/m ³)		200±30	125±15	100±10	66.7±8	50±6	40±4	33.3±3	28.6±2
Shore Hardnes (°)	< 3mm Thick	60-70	50-60	45-50	35-45	30-35	25-30	18-25	13-18
	< 3mm Thin	55-65	45-55	35-45	25-35	20-25		15-20	
Tensile Stength (Mpa)	TD	≥1.3	≥0.9	≥0.7	≥0.5	≥0.4	≥0.3	≥0.2	≥0.15
	MD	≥1.5	≥1.0	≥0.8	≥0.6	≥0.5	≥0.4	≥0.25	≥0.2
Elongation (%)	TD	≥200	≥150	≥130	≥130	≥130	≥110	≥110	≥100
	MD	≤220	≥170	≥150	≥150	≥150	≥120	≥120	≥110
Tearing Stength (KN/m)	TD	≥9	≥8	≥6	≥4	≥2.5	≥2	≥1.5	≥1.3
	MD	≥9	≥8	≥6	≥4	≥2.5	≥2	≥1.2	≥1.2
Compressed Distortions (%) 23°C±2°C, 22h		≤2	≤3	≤5	≤7	≤8	≤9	≤10	≤11
Dimension Change (%) 70±2°C, 22h	TD	≤-4	≤-4	≤-4	≤-4	≤-6	≤-6	≤-6	≤-6
	MD	≤-6	≤-6	≤-6	≤-6	≤-8	≤-8	≤-8	≤-8
Water Absorbaton (g/cm ²) 23°C±2°, 24h		≤0.02	≤0.02	≤0.03	≤0.03	≤0.04	≤0.04	≤0.05	≤0.05
Thermal Conductivity (w/mk)		≤0.095	≤0.084	≤0.073	≤0.065	≤0.055	≤0.049	≤0.040	≤0.033

TD: Transverse direction; MD: Machine direction

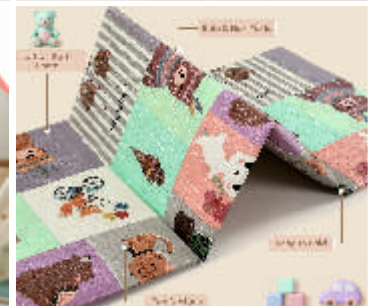
XPE Play Mat

Baby Floor Mat / Baby Play Mat / Folding Mat / Crawling Mat

Product description

XPE Foam foldable play mats come in a different range of sizes and thickness options to accommodate different preferences:

1. **Sizes Available:** 120x150cm, - 150x180cm & 150x200cm.
2. **Thickness Options:** 6mm.
3. **Quality and Comfort:** Crafted from premium XPE foam, our play mats offer superior comfort and safety for BABY & KIDS.
4. **Odorless & Non-Toxic:** Our play mat is free from odors and toxic substances, ensuring a safe and healthy environment for BABY & KIDS.
5. **Convenient Storage:** Foldable, simple storage.
6. Many Prints available.



XPE Camping Mats

Waterproof anti-slip Foam Mat/camping mat/beach mat/yoga mat/sleeping mat/kids play mat

Product description

1. **Portability:** Light weight, folded design. It can be put flat & pack easily, and it is easy to carry. Design as folding egg slot for extra cushioning.
2. **Comfort:** Folding egg slot design enhances warmth retention property and softness.
3. **Versatility:** The mat is widely used for outdoor, beach, camping, relaxation, trekking, camping etc.



Soft & Comfortable



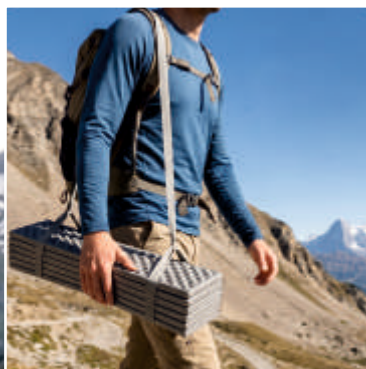
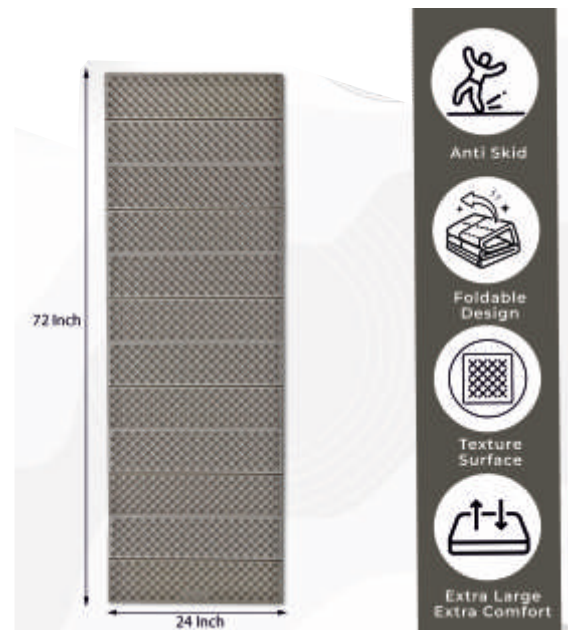
Closed-Cell Design



Foldable Design



Easy to Clean



Easy Carry Design



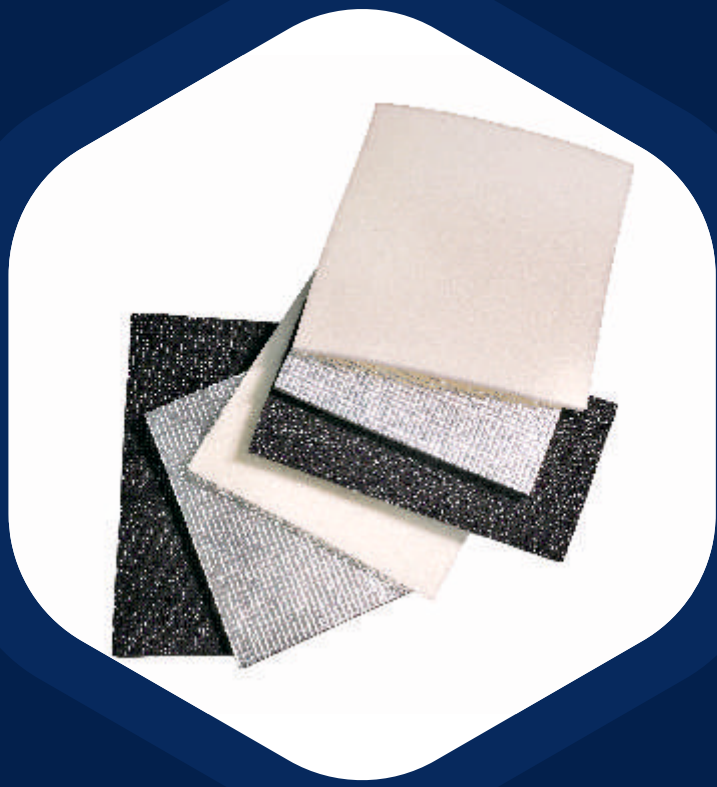
Build for Travel



Nature Companion



Relax in Nature



Contact Us

Delhi Office: 350, SF, Tarun Enclave,
Pitampura, New Delhi-110034

Works: O1 and O1A, Industrial Area,
Sonipat-131001 (HR)

Contact No : +91 9217002767

Email : sales@foamparamount.com/
cmoasaf@foamparamount.com

Website : www.foamparamount.com

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