

Paramount Fire Retardant XPE Foam

For duct, chilled water water,
hot water piping, over deck
and under deck, floor
and wall insulation

FR-XPE is extensively used for duct insulation, chilled water and hot water applications, over deck/under deck insulation, floor insulation and wall insulation. It is ideal for both cold and warm conditions ranging between -40° C to +115° C. The principal functionality of the product is to block heat transfer.

It is also available with factory-laminated pure aluminium foil, metalized foil, UV laminated foil, fibre glass cloth to give higher mechanical strength to the product.



Paramount's XPE is a Chemically crosslinked closed cell fire retardant polyethylene insulation foam that offers thermal insulation, moisture resistance, and sound absorbing properties. It has a smooth surface, great shock absorption and chemical resistivity.

Salient features of Paramount FR - XPE

- FR-XPE Is non-sensitive to vapor and offers excellent resistance to chemicals, insects, bacteria and rodents.
- It is an Ultra-thin and flexible material that can be very easily cut into pieces by scissors or knife.
- Absolutely environment-friendly product and UV resistant.
- It has excellent life-long thermal performance, high compressive strength, closed cell structure, and no water absorption.



Resistant Vapor Barrier



Sound Absorption



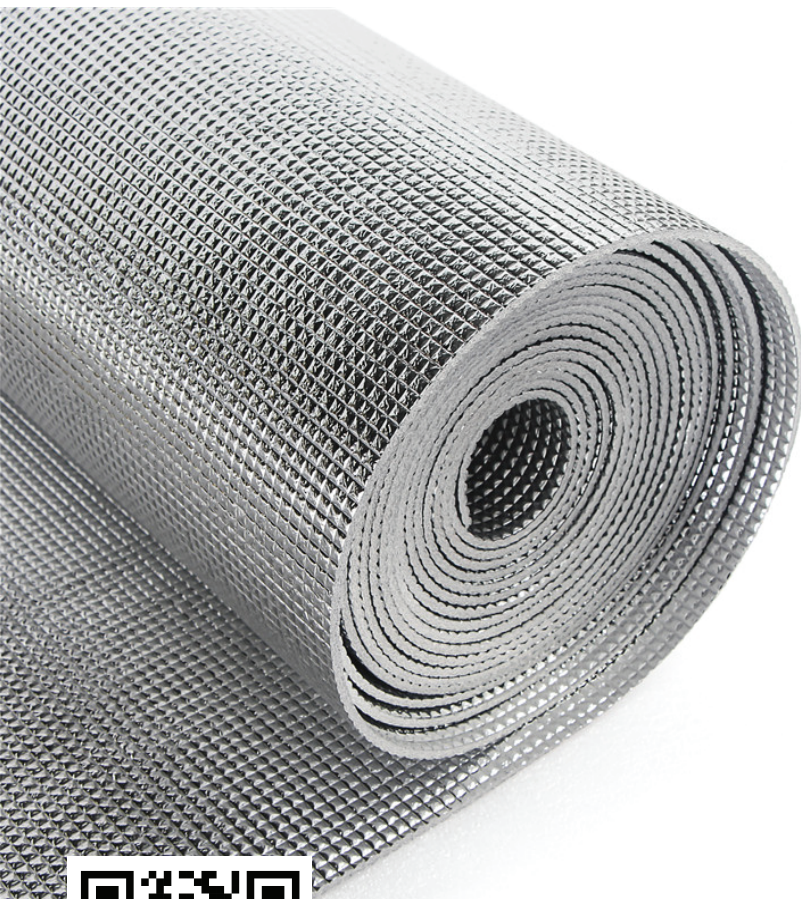
Environment Friendly



100% Mold & Mildew Proof

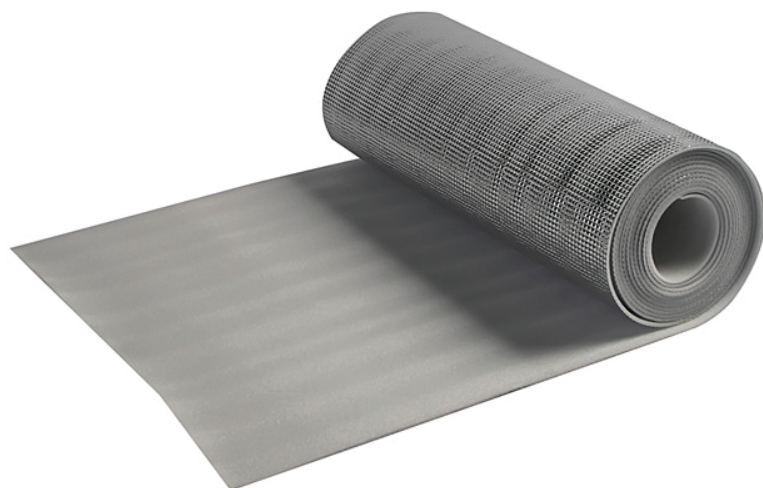


Impact Resistant



TECHINCAL DETAILS

S.No.	Properties	Standard	Technical Details
1.	Density kg/cum	IS : 11239 (Part – 2)	30 ± 3 Kg/ m ³
2.	Cell Structure		Closedcell
3.	Colour		Grey
4.	Services Temperature Range	Using Climate Chamber	- 40° to 115° C
5.	Ozone / UV & Weather / Chemical Resistance		Good / Excellent
6.	Thermal Conductivity at 23° C at 40° C	IS 3346/1980	0.0314 W/m °k 0.034 W/m °k
7.	Fire Retardant Test a) Flammability Class-S4 b) Smoke density Class SR2 c) Dropping Class ST2	DIN-5510 (pt-2), 54837	Self-extinguishing Passed Non-Dripping
8.	Flammability Test	ASTM D 635-14	Self-extinguishing
9.	Heavy metals for ROHS (Pollution)	IEC – 62321	Compliance
10.	HCFC / CFC	US EPA 5021A (2014)	Free / Not Detected
11.	Water Absorption	JIS K 6767 - 1999	0.0007gm/cm ²
12.	Water Vapour Transmission Rate	ASTM E-96 2016	0.05 gm/m ² /Day
13.	Overall Migration Test	IS 9845-1998	Negligible effect of acids and alkalis
14.	Fire Rating (Surface Spread of Flame- plain material)	BS 476 Part 7	Class-1
15.	Fire Rating (Fire Propagation Index) – laminated with pure aluminium foil on one side	BS 476 Part 6	Class-0
16.	Oxygen Index	ASTM D 2863	27.7 %
17.	Insulation Without Aluminium foil Water Vapour Permeability Water vapour resistance factor (μ)	DIN EN SIO : 12572	Negligible (12805 - Plain-without Foil)
18.	Insulation With Aluminium foil on one side Water Vapour Permeability Water vapour resistance factor (μ)	DIN EN SIO : 12572	Negligible (17300 With Alu. Foil)
19.	Fungal Resistance Test	ASTM G-21	Zero Rating (No growth observed)
20.	Bacteria Resistance Test	ASTM G 22	No Bacteria growth observed
21.	Mold Growth	IS 3144: 1992	No Mold growth observed
22.	Volatile Content (VOC)	ASTM D 2369-10 2015	0.7 %
23.	Tensile Strength kg/cm ² (a) Machine direction (b) Cross direction Elongation% (a) Machine direction (b) Cross direction	JIS K 6767-1976	2.4 2.2 113 100
24.	Noise Reduction Coefficient (NRC) - 20mm Thickness	ISO: 354-2003 ASTM C423-09a	0.27



Acoustic Insulation



Thermal Insulation



Energy Efficient

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