



Nanjing Ourgreen Corporation Ltd

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General Introduction to XPS Foam Board

What is XPS?

Extruded Polystyrene Foam Board, usually being called XPS Foam Board, is made through an extruding and expanding process. Raw materials of General Purpose Polystyrene (GPPS), Nucleating Agent, Color Additive, Blowing Agent (Gas) are supplied into 1st Extruder for Plasticizing and Mixing. A temperature of about 200°C is maintained in the 1st Extruder, where granule GPPS is heated, melted, and mixed with other materials. Then directly all these mixtures are extruded into 2nd Extruder, the purpose of which is for Cooling.

Here the temperature decreases gradually from 200°C to 70°C, and then all materials are extruded out of Mould (being called Slot Die) and meet air. Once in contact with air, the Polystyrene expand to times of its original volume. Here we use Calibrator to control thickness and it comes in panel shape. After Air Cooling, we will cut width and length to customized size of 1200X600X50MM or 2440X1220X100MM.

What are advantages of using XPS?

XPS is light in weight, easy to transport, convenient to cut and most importantly, it has excellent thermal breaking property, due to its low Thermal Conductivity as 0.027W/m.k.

Where do we use XPS?

XPS is widely applied in Roof / Wall / Floor / Cold Storage / Cold Chain Logistic Truck / Ice Rink Foundation / Airport Runway Base / High-speed Railway Base due to its excellent Thermal Conductivity and high Compression Strength

Technical Parameters of XPS

Items	Unit	Value
Panel Size	mm	1200X600
Thickness	mm	20-100
Edge Shape	---	Butt Edge
Color	---	Yellow/Blue
Skin Condition	---	Skin-on
Density	Kg/m ³	30-55 Kg/m ³
Thermal Conductivity	W/(m.k)	0.027 at 25°C
Compressive Strength at 10%	Kpa	250-700
Bending Deflection	Mm	25
Dimensional Stability at 70°C	%	4.2/2.1/0.9
Compression Creep 80°C 20Kpa	%	4
Water Absorption	V/V	0.8
Moisture Permeability	ng/(m.s.Pa)	1.4



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XPS Pictures





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