

ORI STYRO

Extruded polystyrene rigid foam with skin, colored blue throughout, according to ASTM standard C 578-95, as manufactured by Oriental Polystyrene (OriFoam). Material thickness should be as indicated in the drawing and have the following properties:

1. Thermal conductivity of 0.025 W/m k (0.17 Btu.in/ft².h.°F) when tested at 10°C (50°F) in accordance with or ASTM C 518.
2. Compressive strength of 700 kPa (102 psi) average, when tested in accordance with ASTM D 1621.
3. Water absorption of <3% in volume average when tested in accordance with ASTM D272.
4. Water vapor permeability of 1.1 perm–inch average when tested in accordance with9ASTM C 96.00.
5. Edge Treatment Ship lap or Butt Edge.

BROCHURE OF EXTRUDED POLYSTYRENE

Insulation, why?

Increasing energy costs and availability problems emphasize the need for immediate energy conservation even in the oil producing countries. An effective way of saving energy is to improve the thermal insulation of buildings. This is particularly important in hot climates where the energy demand for cooling by air conditioning is very high. In addition to the need for energy saving, high insulation standards are justified by improved comfort levels and increased building life. A well-insulated building will have a higher value.

Product Description

ORIFOAM thermal insulation boards are manufacture by the ORIENTAL POLYSTYRENE PRODUCTS CO LLC. Through advance processes, products and application research and development work has taken place various countries. Today, a variety of grades of ORIFOAM INSULATION BOARDS manufactured for many applications and industries, is available in various sizes and with various edge treatments.

Extruded polystyrene foam is used in many parts of the world under widely differing climatic conditions. For example, use in the Middle East at ambient temperatures of more than +40°C (+104°F), while, at the other extreme, Orifoam boards has been used in Alaska to protect the delicate permafrost at temperatures as low as -50°C (-58°F) along 200 km of gravel road servicing the Trans Alaska Oil Pipeline.

Orifoam Thermal sheets are manufactured by a continuous extrusion process which imparts a characteristic closed cell structure giving the product its unique physical properties. Extruded polystyrene rigid foam has a high resistance to water absorption and good mechanical properties. The manufacturing process, combined with inherent qualities of the inert component thermo plastic material gives Orifoam predictable long-term performance and high insulating value.

		APPLICATIONS		
PRODUCT	DESCRIPTION			BOARD DIMENSIONS
ORI-STYRO	Extruded polystyrene rigid foam with skin. It is available with or without tongue and groove edge treatment	Thermal insulation boards for		Thickness-
		- Floors		20,30,40.50,60,75,80,90
		- Walls		&100mm
		- Pitched roofs		Width 600mm
		- Perimeter*		Length 1250mm
		- Ceiling for agricultural buildings		CFC & HCFC Free
		Blowing Agent		

SPECIFICATION

1. Thermal conductivity of 0.025 W/m k (0.17 Btu.in/ft².h.°F) when tested at 10°C (50f) in accordance with or ASTM C 518.
2. Compressive strength of 700 kPa 1102 psi) average, when tested in accordance with ASTM D 1621.
3. Water absorption of <3% in volume average when tested in accordance with ASTM D272.
4. Water vapor permeability of 1.1 perm–inch average when tested in accordance with 9ASTM C 9600.
5. Edge Treatment Ship lap or Butt Edge.