

ORI DUCT INSULATION

Expanded Polystyrene board insulation is widely used for the application of insulating, Air-conditioning (Supply Air, Return Air, Extract Air & Fresh Air) Ducts.

Based on customer's specification boards are produced in different grades, ranging from 18kg/m³ Density to 35 kg/m³ density.

EXPANDED POLYSTYRENE DUCT BOARD

Depending on the specific application and requirement, the grades of the polystyrene boards are selected. Standard board thicknesses available are 25mm, 40mm, 50mm & 75mm.

Our sophisticated, modern manufacturing facilities at Rusyl, which is the biggest facilities in the Sultanate, include computer programmed cutting system, that enables to produce boards of any size and thickness.

ORIFOAM'S ALL PRODUCTS ARE CONFORMING TO RELEVANT BRITISH OR AMERICAN STANDARDS, FIRE RETARDENT GRADE AND CFC FREE.

EPS BOARD SIZE	THICKNESS	DENSITY AVAILABLE
2.5X1.27MTR	25MM	<i>HD 18-20KG/M³</i>
	40MM	<i>EHD 22-25KG/M³</i>
	50MM	<i>UHD 28-30KG/M³</i>
	75MM	<i>SHD 32-35KG/M³</i>

Note: Other thickness and sizes are producing as per the specific request of customers.

ADVANTAGES OF ORIDUCT INSULATION

- High Thermal Resistance (Excellent k-value)
- Durability (Long Life)
- Strong
- Very high resistance to water absorption.
- Easy to handle, to cut & to install.
- Variety of thickness available according to customers/project requirement.
- The board size is in any thickness Maximum 2500mmx 1270mm (white colour)
- Environment friendly (CFC/HCFC free).
- Saving Energy up to 40%.

PHYSICAL PROPERTIES	TEST METHOD	GRADE DENSITY			
		<i>HD</i> 18-20KG/M ³	<i>EHD</i> 22-25KG/M ³	<i>UHD</i> 28-30KG/M ³	<i>SHD</i> 32-35KG/M ³

Thermal Conductivity 10 ⁰ C W/m.K	BS 3837 (Appendix D)	0.035	0.033	0.032	0.030
Compressive Strength Minimum Kpa	BS 4370 Part- 1 Method 4	110	150	190	210
Minimum Cross breaking Strength Kpa	BS 4370 Part- 1 Method 4	170	205	275	290
Dimensional Stability at 80 ⁰ C (Max. Linear Change)	Appendix E	0.5%	0.5%	0.5%	0.5%
Water Vapour Permeability at 38 ⁰ C Ngm/(Pa.s.m)	Appendix E	5.0	4.2	4.2	3.9
Water Vapour % in Volume		0.2	0.2	0.2	0.2
Burning Characteristics Extent burnt, mm	BS 4735	<125	<125	<125	<125