



EPS

DESCRIPTION

The Company produces a variety of EPS foam products including thermal insulation sheets manufactured through injection process of polystyrene. EPS is characterized as an environmental friendly product

KEY FEATURES

- Reduces the consumption of electric power
- Reduce the loads imposed adjacent and underlying soils and structures.
- lowers the cost of construction because it is easily to handle without need of special equipment
- Keeps building appropriate temperatures for a long time
- Prevents the intensification of moisture in the walls

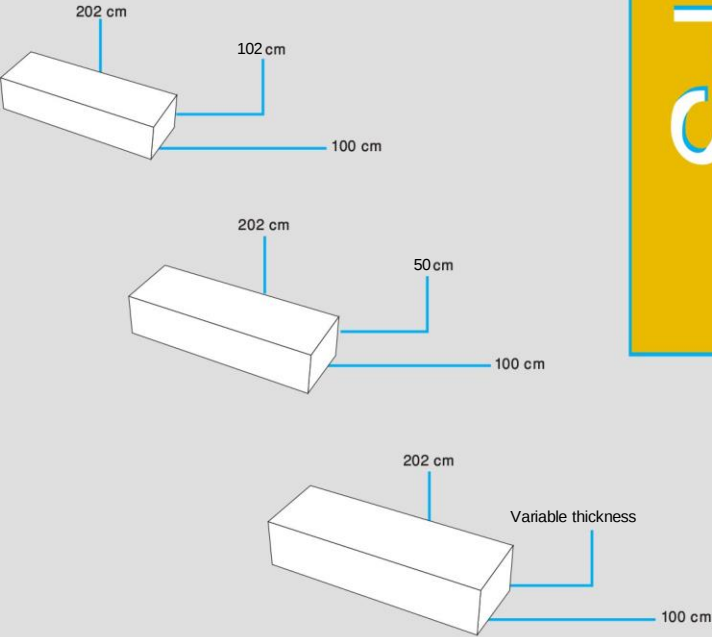
APPLICATIONS

- Used in the ceilings and walls of buildings to isolate the heat.
- Used on CNC machine, for FAcades (FUGA)
- Thermal insulation for refrigeration cabinets .
- Used in sound insulation .
- Pipe Insulation

INSTALLATION

Use mortar of cement, sand, water and latex or using bituminous protective coating or non solvent adhesive substance

DIMENSIONS



Properties	Code	Norm	Description	Unit
Density				kg/m³
Thermal conductivity	λ _D	EN 12667	value measured at a mean temperature of 10 °C	W/m K
Thermal resistance	R _D	EN 12667	related to thickness R _D =d/ λ _D	(m²K)/W
Compressive Stress	CS(10/Y)	EN 826	compression to 10% of thickness	KPa
Tensile Strength	TR	EN 1607		KPa
Bending Strength	BS	EN 12089		KPa
Dimensional stability	DS(70)3	EN 1604	test conditions (Storage for 48 h at 70 °C - 90% Relative Humidity)	%
Fire rating	Euroclasse	EN 13501-1		
Specific heat		EN 12524		J/(KgK)
Resistance to water vapour diffusion	MU	EN 12086		μ
Water absorption by Immersion	WL(T)	EN 12087	total immersion for 28 days	% volume
Water absorption by Diffusion	WD(V)	EN 12088		% volume
Using Temperature				°C

70	100	150	200	250
15 ± 5%	20 ± 5%	25 ± 5%	30 ± 5%	35 ± 5%
≤ 0,036	≤ 0,035	≤ 0,034	≤ 0,033	≤ 0,032
0.83	0,86	0,88	0,91	0.94
1.1	1.14	1.18	1.21	1.25
1.39	1.43	1.47	1.52	1.56
1.67	1.71	1.76	1.82	1.87
≥ 70 CS(10)70	≥ 100 CS(10)100	≥ 150 CS(10)150	≥ 200 CS(10)200	≥ 250 CS(10)250
≥ 70 TR70	≥ 100 TR100	≥ 150 TR150	≥ 200 TR200	≥ 250 TR250
≥ 115 BS115	≥ 150 BS150	≥ 200 BS 200	≥ 250 BS 250	≥ 350 BS350
3	3	3	3	3
E	E	E	E	E
1450	1450	1450	1450	1450
20 - 40	30-70	30-70	40-100	40-100
≤ 3 WL(T) 3	≤ 3 WL(T) 3	≤ 3 WL(T) 3	≤ 3 WL(T) 3	≤ 3 WL(T) 3
≤ 3 WD(V) 3	≤ 3 WD(V) 3	≤ 3 WD(V) 3	≤ 3 WD(V) 3	≤ 3 WD(V) 3
75	75	75	75	75

