



Expanded Polystyrene (EPS)

Thermal insulation sheets for buildings

Due to its closed cell structure, which inhibits the passage of heat or cold, EPS has a high capacity for thermal insulation. Insulation is the most effective way to improve the energy efficiency in your home.

EPS Features and Benefits

- Excellent thermal insulation.
- Light weight for ease of construction works.
- Mechanical resistance for load bearing insulation applications
- Low water absorption, unaffected by damp, humidity or moisture.
- Ease of handling , installation and transportation.
- Chemical resistance, compatible with cements and plasters.
- Versatility, can be cut into the shape or size required.
- Ageing resistance.
- Does not induce metal corrosion.

EPS is suitable for

- Office partitions.
- Factory and housing insulation as well as hygienic building structures.
- Pipe and vessel insulation.
- · Light weight wall cladding with rendered finish, and profile mouldings.
- Cold rooms, deep freeze facilities, refrigeration.

Automa Multistyrene (PTY) Ltd is IS09001-2015 and ISO14001 - 2015 accredited

+27 11 974 35 24 www.automa.co.za sales@automa.co.za







Excellent thermal insulation 100% recyclable CFC and HCFC free

Technical Properties

PROPERTY	CONDITIONS	UNIT		EPS GRADES					
				P32	P24	P20	Q15	S15	P12
Nominal Density:		Kg/m ³		32	24	20	15	15	12
Minimum Density:				28.80	21.60	18.00	14.40	13.50	10.80
WATER PROPERTIES									
Vapour Transmission Vapour Resistivity	38° 88%RH	ngm/Ns MNs/gm	Max Min	4.2 238	4.2 238	5.0 200	6.9 145	8.0 125	
HEAT PROPERTIES						•			•
Thermal Heat Conductivity (K-Value) Thermal Resistance (R-Value) Dimensional Stability Effect of High Temperature	10° 100mm thick 7 days 80° Long term stable Short term stable	W/m.K m ² .K/W % °C °C	Max Max Max Max Max	0.033 3.03 1.0 80 100	0.034 2.94 1.0 80 100	0.035 2.86 1.0 80 100	0.038 2.63 1.0 80 100	0.040 2.50 1.0 80 100	0.045 2.22 1.0 80 100
STRENGTH PROPERTIES									
Compressive Stress Cross-breaking Strength Safe Working Load	@10% compression @1% nominal compression	kPa kPa kPa	Min Min Min	200 250 100	160 205 70	110 150 45	80 140 21	65 100 17	60 80 15

Biological Resistance

- Does not promote mould growth.
- Offers no food value to insects or rodents.

