



Semi Rigid Glasswool
Board Plain



Glasswool Board



POLY GLASS FIBRE
www.polyglass.com.my

POLYGLASS Semi Rigid Glasswool Board Plain/ Unfaced

For Comfort and Energy Saving

PolyBoard for Noise Control and Thermal Insulation

*GlassWool
Insulation*

Description

Poly Semi Rigid Plain Glasswool Boards are thermal and acoustical insulation boards manufactured from highly resilient, inorganic glass fibres bonded with thermosetting resin by the unique Poly Glass rotary attenuation process which incorporates a uniform and consistent fibre diameter for superior thermal and acoustic performance. The products are dimensionally stable, with good mechanical strength and provide high degree of compression resistance. It is available in various densities and thicknesses.

Applications

Poly Semi Rigid Plain Glasswool Boards are used in Industrial Equipment Insulation (I.E.I) and provide varied degrees of compression resistance and flexibility to aid easy installation to curve and irregular shapes, so that maximum thickness is maintained around corners and joints. The products are dimensionally stable and do not deteriorate with time.

Application of **Poly Semi Rigid Plain Glasswool Boards** include the following:

- Heating equipment such as ovens, furnaces and hot water generator.
- Cooling equipment such as air conditioning duct work, food processing freezers and low temperature speciality equipment.
- Vessel tanks and other storage facilities with operating temperature from -51°C to 204°C .
- Noise Control/Reduction for factory equipments, generator, generator rooms, highway sound barrier, etc.

Poly Semi Rigid Plain Glasswool Boards are also widely used as an internal thermal and acoustic liner for Heating, Ventilation and Air -conditioning (HVAC) system, to conserve heating, cooling energy and to control vibration-borne noise in ducts and equipments.



SIRIM

CLASS O / TESTED TO BS476 Part 6 & 7
CERTIFICATION No: LP009301
GLASSWOOL INSULATION



BUATAN MALAYSIA

Benefits and Features

ENERGY CONSERVATION. Poly Semi Rigid Plain Glasswool Boards conserve energy and operating costs by reducing heat gain or loss through sheet metal surfaces.

DURABLE. Poly Semi Rigid Plain Glasswool Boards are durable and able to withstand compression, shearing and tearing. Also resistant to mold, fungi growth, corrosion and rust.

THERMAL PERFORMANCE. Poly Semi Rigid Plain Glasswool Boards with higher density glass fibre trap and encapsulate a myriad of minute air pockets, making the insulation highly resistant to heat transfer.

EASY INSTALLATION AND HIGH PERFORMANCE. Poly Semi Rigid Plain Glasswool Boards are readily cut with knife, and can be secured with fasteners, adhesive or tape. The resilient glass fibre resist sagging from vibration, high temperature and humidity.

CONDENSATION CONTROL. Poly Semi Rigid Plain Glasswool Boards help prevent condensation and thus prevent the potential growth of fungus and bacteria.

Fire Properties

Poly Semi Rigid Plain Glasswool Boards do not ignite, evolve heat, spread flame or develop smoke when tested in accordance with Australia Standard 1530 : Part 3-1982

	Unfaced	Faced
Ignitability Index	0	0
Heat Evolved Index	0	0
Spread of Flame Index	0	0
Smoke Developed Index	0~1	0~1

Acoustical Performance

Test Method ASTM C423. Type 'A' mounting.

Density kg/m ³	Thickness (mm)	Centre Frequency (Hz)							NRC
		125	250	500	1000	2000	4000		
24	25	0.24	0.36	0.67	0.87	0.88	0.92	0.70	
32	25	0.19	0.35	0.71	0.86	0.94	0.97	0.70	
48	25	0.22	0.38	0.80	0.91	0.96	0.99	0.75	
24	50	0.36	0.64	1.04	1.06	1.05	1.10	0.95	
32	50	0.38	0.72	1.11	1.07	1.04	1.07	1.00	

General Properties

Service Temperature -51°C to 204°C

Moisture absorption	The moisture absorption of the insulation shall not be more than 5% by weight when tested in accordance with ASTM C665.
Alkalinity	"pH9, slightly alkaline"
Corrosiveness (with steel, copper or aluminium)	Does not accelerate
Odour	None
Capillarity (after 24 hours)	Negligible
Shrinkage	None
Thermal resistance	0.75 ~ 3.0m ² K/W
Resistance to fungus and bacteria	Does not promote

Thermal Conductivity (ASTM C518) at 24°C Mean Temperature.

Density kg/m ³	K Value	
	W/m°C	BTU-in/(hrft ² F)
24	0.0375	0.26
32	0.0346	0.24
48	0.0332	0.23
64	0.0332	0.23
80	0.0332	0.23
96	0.0332	0.23

Range of Products Available

Density kg/m ³	Semi Rigid Glasswool Boards (1.2m width x 2.3m length)						
	Thickness (mm)						
32	15	25	40	45	50	75	100
48	15	25	40	45	50	75	100
64	15	25	40	45	50	75	-
80	-	25	40	45	50	-	-
96	-	25	40	45	50	-	-

Manufactured in Malaysia by:



POLY GLASS FIBRE

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