



- 1 | FSK / Single-sided Aluminium Foil Faced
- 2 | Plain / Unfaced



Pipe

POLYGLASS
Poly Rigid Pipe
Sections and Flexi-Wrap

For Comfort and Energy Saving

Sectional Pipe Insulation and Flexi-Wrap

GlassWool
Insulation

Description

Poly Rigid Pipe Sections and Flexi-Wrap are manufactured by unique rotary process with high-density glasswool. Poly Rigid Pipe Sections insulation is for hot and cold pipes in one metre (1m) lengths. Designed to fit pipes of external diameter of 5/8" (15mm) to 10" (254mm) with insulation thickness of 25mm to 75mm, other sizes are available upon request. Pipes are split longitudinally to provide ease of installation. For application where vapour barrier are needed, Poly Rigid Pipe Sections and Flexi-Wrap faced with aluminium foil are available.

Application

Poly Rigid Pipe Sections Insulation is designed for use on cold water, hot water, steam and service lines in commercial projects as well as industrial process and steam lines. Flexi-Wrap Insulation is designed for use on large diameter pipes exceeding 254mm external diameter for bulk liquid storage tanks, chimneys, etc.

Benefits and Features

THERMAL RESISTANCE. Poly Rigid Pipe Sections are non-combustible and are widely used for thermal insulation and condensation controls.

EASY APPLICATION. Poly Rigid Pipe Sections being lightweight and with longitudinal cut are easy to install.

RESILIENCY AND STRENGTH. Poly Rigid Pipe Sections have excellent resistance to deformation. No dimensional alterations are observed under heat. The resilient property of the insulation allows for tighter joints, and enhances close-fit insulation.

LOW THERMAL CONDUCTIVITY. High density Poly Rigid Pipe Sections offer low thermal conductivity, and thus, high thermal resistance.

PHYSICAL APPEARANCE. Poly Rigid Pipe Sections are non-hygroscopic and do not promote capillary action. They will not shrink, swell, and are non-corrosive to steel, copper or aluminium pipes.

CONDENSATION CONTROL AND FUNGI RESISTANCE. Poly Rigid Pipe Sections are ideal for these applications in cold water pipes.

Fire Properties

Poly Rigid Pipe Sections and Flexi-Wrap are tested in accordance with :

A.S. 1530.3.1989 Fire hazard property of material

B.S. 476: Part 6 Fire propagation

B.S. 476: Part 7 Surface spread of flame

Comply with BOMBA Class "O" certification and other building Regulations.

Early Fire Hazards

Poly Rigid Sections Pipe and Flexi-Wrap 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

Surface Burning Characteristics

Poly Rigid Sections Pipe and Flexi-Wrap meets the surface Burning Index requirements of NFPA 90A and 90B standards FHA when tested in accordance with ASTM E84.

Fire Hazard classification 25/50.

General Properties

Service Temperature -51°C to 204°C

Moisture absorption	The moisture absorption of the insulation shall be not 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 ~ 2.3m ² K/W
Resistance to fungus and bacteria	Does not promote

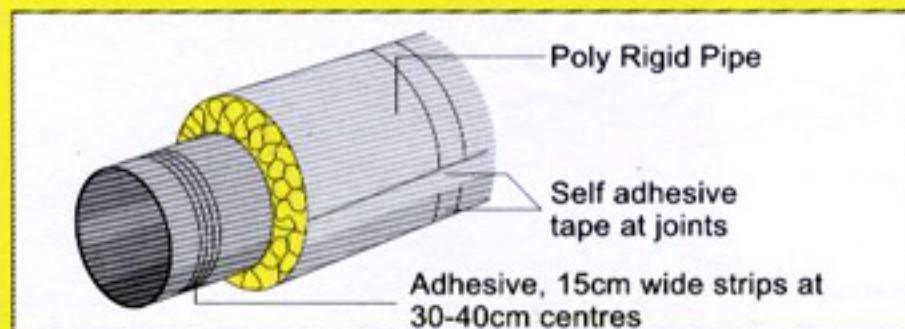
Facing Information

FSK / Single-sided Aluminium Foil

Reinforced with fibre glass scrim

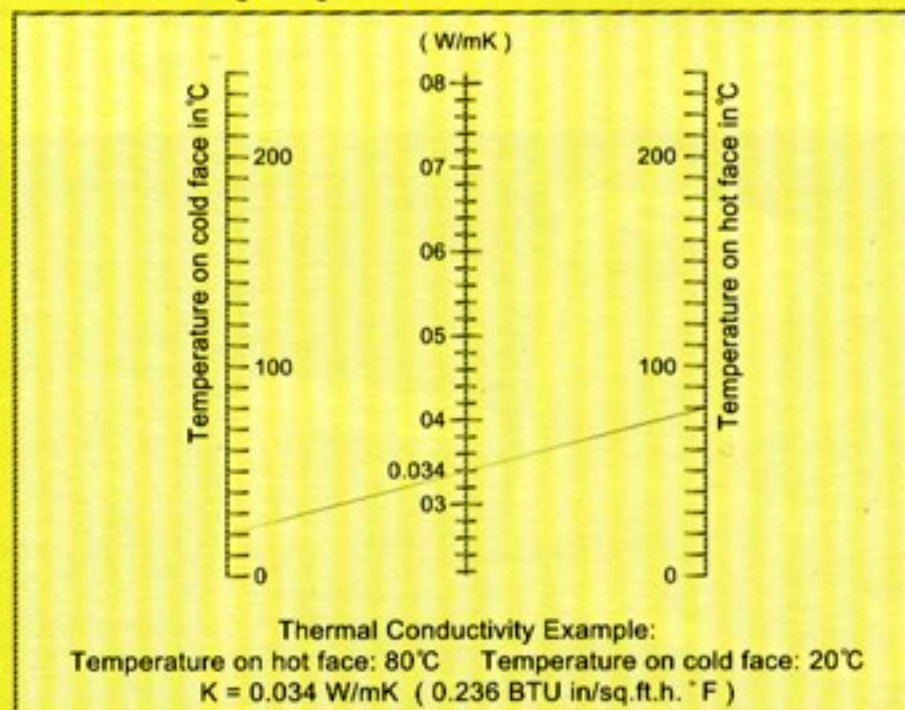
Exhibits good fire properties (BS 476: Part 6 & 7)

It is a highly effective vapour barrier.



Thermal Conductivity, K Value

- The thermal conductivity values of Poly Rigid Pipe Sections demonstrate very slight changes parallel to the increases in temperature.
- Thermal conductivity vs temperature can be calculated making use of the diagram given below :

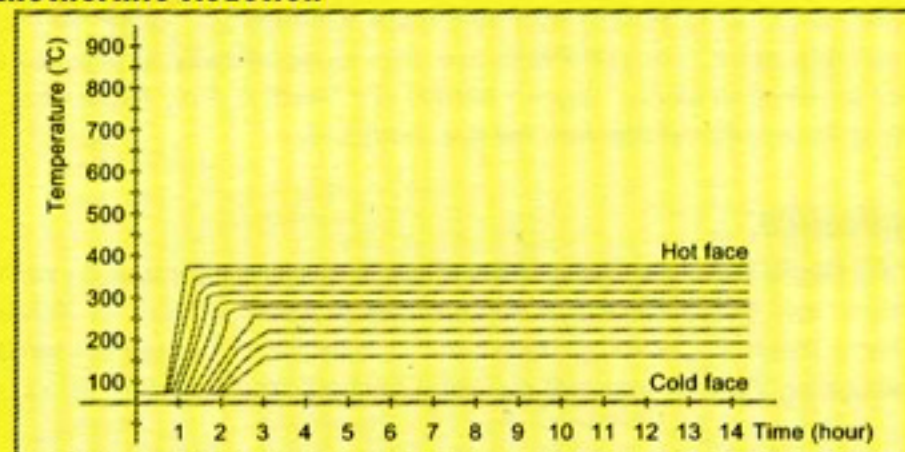


This chart enables you to determine the coefficient of the thermal conductivity of the Poly Rigid Pipe Sections knowing the temperatures of the internal and external faces.

The two different temperatures of the internal and external faces of the Poly Rigid Pipe Sections are given on the right and left scales of the diagram. By joining the two temperatures with a straight line, as indicated, the accurate thermal conductivity is obtained at the intersection with the central vertical scale.

Thermal Conductivity	Mean Temperature
0.032 W/mk	24°C
0.042 W/mk	93°C
0.079 W/mk	260°C

Exothermic Reaction



No exothermic reaction has been observed when Poly Rigid Pipe Sections were subjected to temperatures exceeding the service temperature.

Available plain / unfaced or with FSK / Single-sided Aluminium Foil Facing.

Manufactured in Malaysia by:



POLY GLASS FIBRE (M) BHD. (42138-X)

No. 2449, Lorong Perusahaan Sepuluh,
Kawasan Perusahaan Perai,
13600 Perai, Penang, Malaysia.

Tel : (604) 390 8460 (Hunting) Fax : (604) 399 6197

E-mail : poly@tm.net.my / polymktg@tm.net.my

Website : www.polyglass.com.my

Sales & Marketing:

PGF MARKETING (M) SDN. BHD. (299649-A)

No. 1, (2nd floor) Lengkok Keluli 2,
Kawasan Perindustrian Bukit Raja,
41050 Klang, Selangor, Malaysia.

Tel : (603) 3344 3113

Fax : (603) 3343 0935

E-mail : pgf@pd.jaring.my

Other Factory Locations:

PT POLYGLASS INDUSTRIES

Lot No. E1/C964,
Keroncong, Jatiuwung,
Tangerang, 15134 Indonesia.

Tel : 62-21-590 1326

Fax : 62-21-590 1327

E-mail : pgl@centrin.net.id

HUBEI POLY GLASS FIBRE CO. LTD.

Gedian Economic & Technological Development,
Zone of Hubei Province,
P.C. 436070 Hubei Province, China.

Tel : 86-711-381 2007

Fax : 86-711-381 2017

E-mail : poly@public.ez.hb.cn