VOLUME 1, ISSUE 2
ISSUE DATE: AUGUST 2009

DATA SHEET

POLYISOCYANURATE

PIR Foam Insulation

PIR is manufactured from a mixture of two principal liquid components and a number of additives to produce highly cross-linked polymers with a 90% closed cell structure providing an excellent resistance to moisture penetration.

Typical applications include: Oil Refinery, chemical process plant, cryogenic and Liquid gas plants, Rail and Marine transport, Refrigeration pipe work, Food processing, brewery industries and MOD applications.

Standards Include: BS5608:1993, BS 4840: Part1:1985, BS 4840: Part2:1994, BS 5422: 1990, BS5970: 1992.

IBS Insulation & Buoyancy Services Limited

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	PIR35	PIR50	PIR60	PIR80	PIR120	PIR160
Nominal Density (m^3)	35kg (±2)	50kg (±3)	60kg (±4)	80kg (±6)	120kg (±10)	120kg (±16)
Colour	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Water Absorption	< 2 Vol -%	< 2 Vol -%	< 2 Vol -%	< 2 Vol -%	< 2 Vol -%	< 3 Vol -%
ODP	0	0	0	0	0	0
Thermal Conductivity 10°C (.d)	0.021 W/m.K	0.023 W/m.K	0.027 W/m.K	0.027 W/m.K	0.029 W/m.K	0.033 W/m.K
Closed Cell Structure	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%
Compressive Strength	>200 kPa	>360 kPa	>430 kPa	>650 kPa	>1500 kPa	>2300 kPa
Tensile Strength	>300 kPa	>550 kPa	>650 kPa	>900 kPa	>1100 kPa	>1400 kPa
Temperature Limits	-120 to +120°C	-120 to +120°C	-120 to +120°C	-120 to +120°C	-120 to +120°C	-120 to +120°C
Linear exp. coefficient	50.10^{-6}	50.10^{-6}	50.10^{-6}	50.10^{-6}	50.10^{-6}	50.10^{-6}

Product Information

Standard Length	1000mm
Minimum Pipe Section O/D	17mm
Maximum Pipe Section O/D (R+B Lags supplied for sizes above)	324mm
Standard Thicknesses (Double & Triple layers also available)	25, 40, 50, 65, 75, 89, 100
Standard Packaging	Export Carton, shrink wrapped to pallet
Storage	A warm dry atmosphere, clear of ground

Product Range

- Flat Slab
- Pipe Section
- Radiused & Bevelled Lags
- Bends & Elbows
- Pipe Supports
- Dome End Segments
- Segments for Knuckles
- Flanges
- Valves
- Reducers
- Tees

Factory Applied Finishes

- Dust Suppression
- VentureClad Covered
- Foil Backed
- Polyester Laminate Backed

Contact Details

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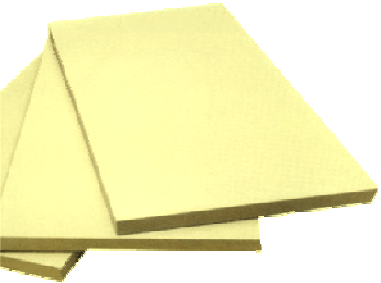

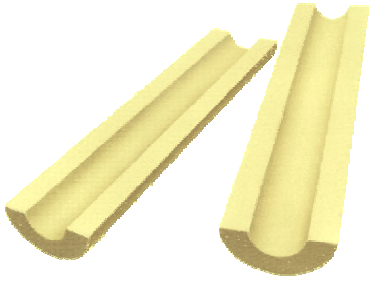

MSDS

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Hazard Identification	Not Classified as dangerous according to EEC regulations.
Fire Fighting Measures	**Extinguishing media:** All available media allowed. **Combustion products:** Carbon monoxide, HCN and possible other toxic gases. **Fire Fighting Protective Measures:** Suitable respiratory protection with positive air supply.
First Aid Measures	**Inhalation:** N/A **Skin Contact:** N/A **Eye Contact:** Immediately rinse with fresh water for at least 15 minutes. Obtain medical attention if irritation appears.
Handling & Storage	**Handling:** Normal industrial standards. **Storage:** Do not store in direct sunlight.
Exposure Controls & Personal Protection	Recommended maximum expose: 10 mg/m3 Ensure adequate ventilation. Wear suitable respiratory equipment when dust is generated. (According to EN149 : FFP1 or FFP2).
Stability & Reactivity	The product is stable. Hazardous thermal decomposition products: not likely under normal industrial use.
Toxicology Information	No toxicology information data are available for this and similar products.
Ecological Effects	Under normal industrial use it is not likely that this product acts as a environmental pollutant.
Disposal Considerations	Disposal should be in accordance with local authorities.
Transport Information	Not listed as a hazardous substance (ADR/RID, IMDG, IATA).
Regulatory Information	None

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Physical & Chemical Properties

Form (20°C)	Solid Foam
Colour	Yellow
Odour	None
pH-value	Not Applicable
Boiling point	Not Applicable
Flash Point	>100°C
Explosion limits	Not Determined
Vapour Pressure	Not Applicable
Solubility in water	Non Soluble
Solubility (misc.)	Not Determined
Auto ignition temperature	Appr. 500°C
Relative density (water=1)	0.03—1.1
Viscosity (20°C)	Not Applicable

Other Information

This safety data sheet was prepared in accordance with directive 91/155/EC on 5th March 1991.
It is recommended that the information mentioned in this form should be passed on to customers or users.
The information contained herein is given in good faith and to the best of our knowledge but no warranty, expressed or implied, is made.

Product Benefits

- Dimensionally Stable
- Closed cell Structure & excellent moisture resistance
- Lightweight, Strong & Rigid
- Resistant to many chemical solvents and oil
- Low thermal conductivity
- Non Fibrous
- Oil Resistant
- Proven Track Record

Contact Details

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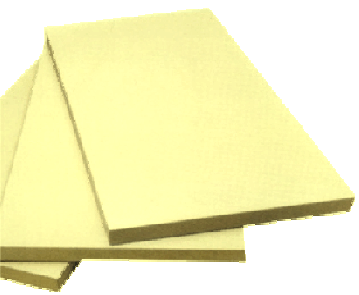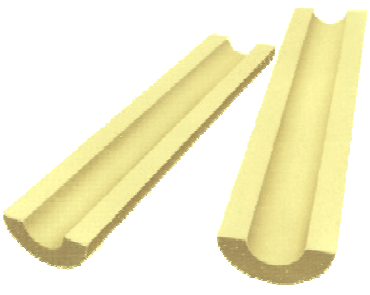
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