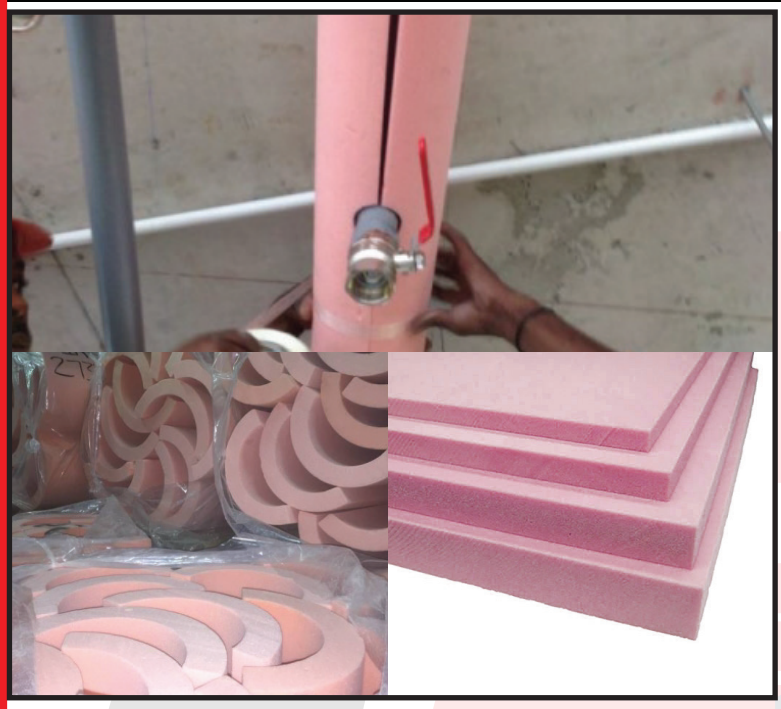
INSULPRO
Insulation products

POLYISOCYANURATE FOAM SHEETING

HOTLINE 0860 INSUL 8



Description

PIC is a closed cell rigid foam board insulation.

PIC can be supplied in sheet form and pipe sections. PIC foams are fine cellular rigid foams.

Polyisocyanurate (PIC) comes in a range of densities from 32kg/m³ to 80kg/m³.

Polyisocyanurate (Polyiso) rigid foam insulation is designed to provide thermal resistance in residential and commercial building construction applications. For example, in exterior above-grade wall assemblies, a layer of rigid insulation is often specified to comply with the prescriptive R-Value requirements outlined in energy codes and standards
Highest R-Value per inch of any rigid foam board insulation

Applications

- Petro-chemical and Process Plant Insulation
- High fire risk application
- HVAC Duct and chilled water pipework
- Cryogenic applications
- Refrigeration plant insulation
- Shipping and offshore Installations
- Roof insulation
- Wall insulation

Features

- High compressive strength potential
- Stable in tempearture range of -120°C to 120°C
- High level of closed cells therefore offering high level of buoyancy

Characteristics

- It has excellent thermal conductivity and high compressive strength
- Exhibits very good dimensional stability between 140°C and -100°C and can therefore be recommended with confidence in this temperature range
- Highly chemical resistant, particularly to hydrocarbons and solvents
- Has a low density and easily and good adhesion to facings

Benefits

Fire Performance

Conforms to FM Approval standards 4880 (1994), flammability characterization is recommonded for applications where good fire performance is required.

Dimensional Tolerance

- Length and Width: +/- 2.0mm maximum
- Reduces the risk of water intrusion

Compressive Strength

With direction of rise - PIC35 220kPa
Variations of +10% may be found. Test SABS 1383 of 1983 - Part 5.7

Closed Cell Content

Minimum value: 90%
SABS 1383 of 1983 - Part 5.8

Compatibility

It has been shown to be compatible with construction materials – such as petroleum-based solvents in adhesives, paints, water repellent and preservative coatings, and in bituminous waterproofing. Not a affected by oil based waterproofing compounds.

Environmental

Environmental with a compliant hydrocarbon-based blowing agent which has as zero Ozone Depletion Potential VP. It also meets HFC-, CFC- and HCFC-free specification requirements.

JHB: 011 835 2127 | CT: 021 201 6789 | KZN: 081 047 6062 | mail@insulpro.co.za | www.insulpro.co.za

INSULPRO
Insulation products

POLYISOCYANURATE FOAM SHEETING

HOTLINE 0860 INSUL 8

Availability

- Available in 32, 40, 45, 60 and 80kg/m³
- 35kg/m³ - minimum density
- Core sample may exhibit variations of up to +10%
- Test to SABS 1383 of 1983 - Part 5.6

Finishes

A) **Plain:**

For on-site finishing with sheetmetal, **Insulpro** hardsetting plaster, glass cloth etc

B) **Canvas Covered:**

For light duty indoor application. Painting ensures a neat, attractive appearance. The cold face temperature should not exceed 50°C

C) **Foil to Mylar:**

An indoor finish of layered aluminium Mylar Foil laminate for cold service where a vapour barrier is required. Supplied with finshing bands and an overlap for the adhesive. The cold face temperature should not exceed 50°C

Dimensional Tolerance

- Length and width +/- 2.0mm maximum
- Thickness +/- 1.0mm maximum

Compressive Strength

With direction of rise- PIC35 220kPa. Variations of +10% may be found. Test to SABS 1383 of 1983 – Part 5.7

Thermal Conductivity

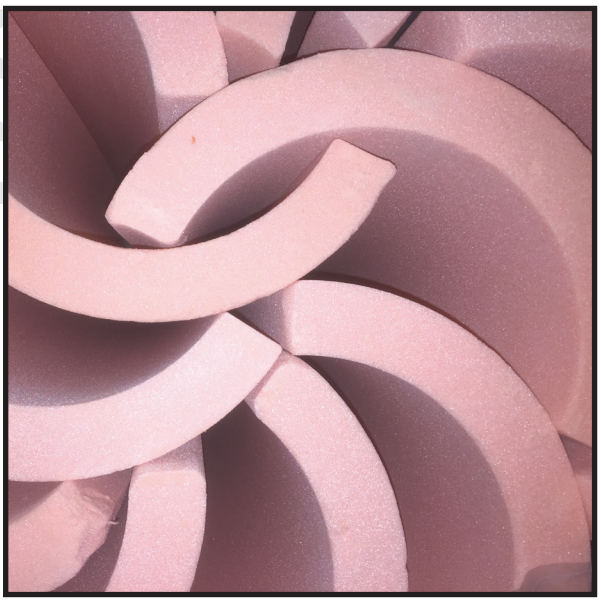
At 10'C : 0.023w/m2(squared)'C. Test to SABS 1383 of 1983- Part 5.9

Fire Performance

- Oxygen Index ASTMD2863 28%-30%
- Butler Chimney ASTM 3014-73
- Weight Retention 90%
- Flame Spread BS 476 Part 7 Class One
- PIC35 is recommended for applications where good fire performance is required.

Dimensional Stability

- At -15'C max 1.0% Dimensional Change
- At 100'C max 1.5% Dimensional Change
- At 70'C and 95% RH max 1.0% Dimensional Change
- All tests are over a 24 hour period. Test to ASTM D2126



JHB: 011 835 2127 | CT: 021 201 6789 | KZN: 081 047 6062 | mail@insulpro.co.za | www.insulpro.co.za