



Rigid Polyurethane Product Data Sheet

Description: Future Foams Rigid Polyurethane Foam 35kg is a polyurethane cellular insulation manufactured in the form of bun-stock for fabrication into sheets, pipe covering, curved lags and many other shapes for a variety of thermal insulation applications. This insulation has been formulated to provide superior thermal performance without the use of CFC blowing agents. Rigid Foam 350 is available for purchase as bun-stock, purpose-made sheet sizes or in the following standard dimensions.

Applications: Future Foams Rigid Polyurethane Foam 35kg is extensively used in commercial and industrial applications within the service temperature range of -183°C to $+105^{\circ}\text{C}$. Due to the critical aspects of technical design, qualified designers should specify the total system. Foam Sales can provide general guidelines on many typical applications.

Some of these include:

- Pipe tank and vessel insulation
- Fabricated pipe fitting insulation
- Core material for architectural and structural panels
- Insulation for shipping containers, trucks or rail cars
- Core material for factory built panelised constructions
- Flat or tapered board stock for roof insulation

Product Limitations: As with all cellular plastics this product will degrade with prolonged exposure to sunlight. A suitable barrier or membrane should be used to block the ultra-violet radiation. Barriers may also be required to conform with applicable fire regulations or to protect the foam from predictable damage in certain applications.

Safety Considerations: Future Foams Rigid Polyurethane Foam 35kg requires some care in handling. All persons working with these materials should understand and follow the proper handling procedures. The current Material Safety Data Sheet contains additional information on the safe handling, storage and use of this material.

Physical Properties

Density: The average density through cross section of the block foam is 36 kg/m³ (Core density 33kg/m³).

Thermal Conductivity: Tested in accordance with ASTM C177 0.0204 (W/mK) at 20°C mean temperature.

Closed Cell Content: 87.5% (+or-4.5%)

Cell Structure: Fine and even

Dimensional Stability: Pass. (Variation less than 5%)

Compressive Strength: Parallel: 84 ± KPa . Perpendicular: 243 ± Kpa

Flammability: Self Extinguishing. (ASTM D1692)

Water Uptake: Less than 400ml/m³ when immersed in water.

Buoyancy Properties: Meets Marine Board approval requirements for internal buoyancy in small vessels.

Chemical Resistance: Kerosene Pass
Petrol Pass
Distillate Pass
Lube Oils Pass

For further information and technical advice on insulation contact Future Foams (08) 9414 9444.