



VITAPUR NIGERIA LTD – RC 810645

POLYURETHANE DATA SHEET AND PANEL SPECIFICATION

GENERAL

Polyurethane (PU) rigid foam offers the highest performance for the following applications:

- ❖ Thermal Insulation
- ❖ Refrigerated/Insulated Truck Bodies
- ❖ Clean & Cold Room Panels (Core)
- ❖ Air handling units
- ❖ Telecom Shelter
- ❖ Portacabin

CHARACTERISTICS

- PU has excellent thermal conductivity and very high compressive strength in relation to other insulation materials.
- PU has a low level of chlorine.
- PU is dimensionally stable in the range -180°C to $+140^{\circ}\text{C}$.
- PU is chemical resistant.
- PU has a high level of closed cells, therefore, offering high levels of buoyancy.

TECHNICAL DATA

DESCRIPTION:

Rigid Polyurethane Closed Cell foam is usually supplied in the form of sandwich panels.

DENSITY:

40 kg/m^3 – minimum density. Core sample may exhibit variations of up to 10%. Test to SABS 1383 of 1983 – Part 5.6

COMPRESSIVE STRENGTH:

Parallel to rise: 300 kPa
Perpendicular to rise: 170 kPa

Variation of 10% may be found. SABS 1383 Part 5.7

CLOSED CELL CONTENT:

Minimum value: 90%. SABS 1383 of 1983 – Part 5.8

Galvanize coating – Z160

Base material (Chrome free primer) – 5micron thick

Paint thickness (Top coat) – 20 micron thick

Hardness – I S Q 230 Commercial quality

Available Interlock

- Camlock
- Tongue and Groove

Polyurethane

The Polyurethane foam used is combustion modified according to ISO 3582

Normal density of foam – 40kg/m³

Lambda Value (Thermal Conductivity Value) – 0.024W/mk (at room temperature)

R – Value – 1.14m².K/w per inch

DISAVOWAL:

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