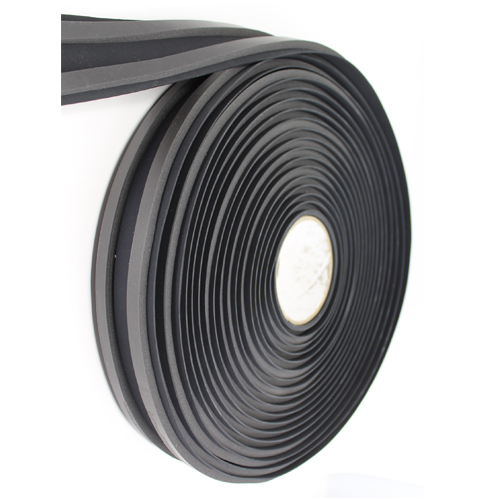
PRODUCT INFORMATION

****

**PBUT Butyl Rubber Strip**

**Product Description:**

PBUT is an Elastomeric Rubber Roofing and Waterproofing Membrane (Manufactured from an EPDM Butyl Rubber Polymer Blend). It is a copolymer of isobutylene with small amounts of isoprene, two gases derived from petroleum distillation. The butyl rubber molecule has a highly saturated structure, and therefore is resistant to heat ageing processes, sunlight and ozone and has exceptionally high resistance to diffusion by gases and liquids (other than mineral oils and solvents). Butyl was commercialised in 1937, it is also used in tyre inner tubes because of its resistance to gas diffusion.

EPDM is an inert polymer made by co-polymerising Ethylene and Propylene with small amounts of another polymer. Its excellent weathering properties provide PBUT with increased durability compared to pure Butyl membranes.

**Product Data:**

|  |
| --- |
| Colour: Standard colour is black  Dimensions: 50mm x 12m  80mm x 12m  Service Temperature Range: -50°C to 110°C  Life Expectancy: Tropical Areas - In excess of 20 Years  Temperature Zones – Earliest application still good after  40 years |

**Applications:**

* Industrial, commercial and residential flat roofs and gutters.
* Irregular angles, curves and contours of any scale architecture.

|  |  |  |  |
| --- | --- | --- | --- |
| **Physical Property** | **Test Method** | **Spec.** | **Typical** |
| Hardness, Shore A | ASTM D 2240 | 68 +/ -5 | Pass |
| Tensile Strength, MPa | ASTM D 412 | 8.3 Min | 9.2 |
| Elongation, Ultimate % | ASTM D 412 | 300 Min | 441 |
| Resistance to Heat Ageing  Properties after 166 Hours @ 116°C (240°)  Tensile Strength, psi (MPa)  Elongation, Ultimate % | ASTM D 573  ASTM D 412  ASTM D 412 | 6.2 Min  210 Min | 8.6  311 |
| Ozone Resistance  Condition after exposure to 50 pphm  Ozone in air for 7 days @ 40°C  Specimen is at 25% strain | ASTM D 1149 | No Cracks | No Cracks |
| Water Vapour Permeance  At 23°C ± 2°C, 45% Rh, perms | ASTM E 96 | 0.06 Max | 0.02 |
| Resistance to Water Absorption  After 166 hours in immersion @ 70°C  Change in mass % | ASTM D 471 | 4 Max | 3.2 |
| Specific Gravity, typical |  |  | 1.2 Black  1.3 Colour |
| Thermal Conductivity, typical  Kcal, hr/m/°C |  |  | 0.27 |
| Temperature Range Remains Flexible from |  |  | -50°C to +110°C |

**Chemical Properties:**

* Chemical Resistance
* Unaffected by water (distilled, potable, sea)
* Unaffected by soil chemicals (soil acids, lime, iron derivatives, silicate derivatives)
* Unaffected by building materials (quick lime, slaked lime, cement)
* Unaffected by decomposition materials (albuminous products, sulphide etc.)
* Unaffected by fertiliser solutions (25% nitrates, phosphates, sulphates)
* Unaffected by bitumen (avoid substrates with bitumen content, because the bitumen absorbs adhesive solvents and these can cause subsequent bubbling)
* Petroleum products (petrol, diesel, white spirits, fuel oil, lubricating oil, grease) will permanently weaken Butyl.

Butynol foam strip 50mm x 12mm

75mm nominal

Double studs well spiked

Butynol foam strip 50mm wide

2mm gap between RAB Board sheets

RAB Board



Double cavity battens

Butynol foam strip 50mm wide

Titan Panel 65mm x 10g wood thread screw

in pre drilled c/sk hole

18 18

10

No

Fixings

80mm wide butynol/ foam strip for internal and external

corners