

T620 Butyl

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BUTYL 60 SHEETING: FOR TECHNICAL APPLICATIONS

FEATURES

High grade halogenated butyl.

ADVANTAGES

- Good resistance to diluted acids and bases
- Excellent ageing resistance
- Excellent ozone resistance
- Excellent low and high temperature resistance
- Good abrasion resistance and compression set values
- Low air permeability
- Excellent impermeability to gases
- Resistant to most inorganic substances
- High resistance to mineral acids and alkalis
- Resistant to ketones and low molecular weight alcohols
- Matte finish to guarantee a good surface finished quality, to secure an easy unrolling, and to facilitate adhesive bonding processes

BENEFITS

- Performance
- Reliability
- Safety
- Service life


APPLICATIONS

Gaskets or washers cutting and manufacturing of pieces for general purpose applications in contact with:

- maximum temperature + 140 °C: water, steam
- maximum temperature + 80 °C: sea water, swimming pool water, water washing
- maximum temperature 20 °C: sulphuric acid (concentration ≤ 95 %), nitric acid (concentration ≤ 50 %)
- maximum temperature 70 °C: hydrochloric acid (concentration ≤ 37 %)
- maximum temperature 80 °C: lime, potash, soda (concentration ≤ 100 °C)

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

| Measured characteristics | Standard | Value |
|--|-------------------------------------|---|
| MECHANICAL | | |
| <i>Rubber compound - black</i> | | |
| | | Halogenated butyl  |
| <i>Density</i> | | 1.27 ± 0.05 g/cm ³ |
| <i>Hardness</i> | ASTM D2240 | 60 ± 5 Shore A |
| <i>Tensile strength</i> | ISO 37 | ≥ 8 MPa |
| <i>Elongation at break</i> | ISO 37 | ≥ 400 % |
| <i>Compression set after 22 h at 70 °C</i> | ISO 815-1 | ≤ 25 % |
| TEMPERATURE | | |
| <i>Working temperature</i> | | - 40/+ 130 °C |
| AGEING | | |
| <i>Δ Hardness after 168 h at 70 °C</i> | ASTM D573 | ≤ 5 Shore A |
| <i>Δ Tensile strength after 168 h at 70 °C</i> | ASTM D573 | ≤ - 15 % |
| <i>Δ Elongation at break after 168 h at 70 °C</i> | ASTM D573 | ≤ - 40 % |
| <i>Ozone resistance, 100 pphm, 48 h, 38 °C, 20 %</i> | ASTM D1149 type A | No crack |
| CHEMICAL RESISTANCE | | |
| <i>Diluted acids and bases</i> | <i>Concentrated acids and bases</i> | <i>Ozone</i> |
| Very good | Good | Very good |
| | | Non suitable |

DIMENSIONS

| Thickness (mm) | Width (mm) | Length (m) | Weight (kg/m ²) | Sides finish | |
|----------------|------------|------------|-----------------------------|--------------|---------------------------|
| 1 | ± 0.3 | 1400 ± 2 % | 20 ± 2 % | 1.27 | 2 sides matt |
| 2 | ± 0.3 | 1400 ± 2 % | 15 ± 2 % | 2.54 | 2 sides matt |
| 3 | ± 0.3 | 1400 ± 2 % | 10 ± 2 % | 3.81 | 2 sides matt |
| 4 | ± 0.4 | 1400 ± 2 % | 10 ± 2 % | 5.08 | 2 sides matt |
| 5 | ± 0.4 | 1400 ± 2 % | 10 ± 2 % | 6.35 | 1 side smooth/1 side matt |
| 6 | ± 0.5 | 1400 ± 2 % | 10 ± 2 % | 7.62 | 1 side smooth/1 side matt |
| 8 | ± 0.7 | 1400 ± 2 % | 5 ± 2 % | 10.16 | 1 side smooth/1 side matt |
| 10 | ± 1.0 | 1400 ± 2 % | 5 ± 2 % | 12.70 | 1 side smooth/1 side matt |

IDENTIFICATION

| | |
|------------------|---|
| <i>Branding</i> | Without. |
| <i>Packaging</i> | Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll. |
| <i>Wrapping</i> | Black polyethylene film. |
| <i>Labelling</i> | Self-adhesive label indicating product name, dimensions, area in m ² , nominal weight, and product code to allow product traceability. |