**NITRILE SHEETING: FOR TRANSFORMER OIL**

**FEATURES**
- High grade NBR.

**ADVANTAGES**
- Excellent mechanical properties, compression set in particular
- Excellent temperature resistance
- Excellent low temperature resistance
- Excellent ageing resistance
- Excellent hydrocarbons resistance
- Matte finish to guarantee a good surface finished quality, to secure an easy unrolling, and to facilitate adhesive bonding processes

**BENEFITS**
- Reliability
- Safety

**APPLICATIONS**
Cutting gaskets for sealing between the tank and the lid of immersed electrical transformers in contact with synthetic dielectric and mineral oils.
No resistance to pyralene.

www.trelleborg.com/elastomerlaminates

---

**MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>MECHANICAL</th>
<th>Measured characteristics</th>
<th>Standard</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubber compound</td>
<td>NBR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td></td>
<td></td>
<td>1.30 ± 0.05 g/cm³</td>
</tr>
<tr>
<td>Hardness</td>
<td>ASTM D2240</td>
<td></td>
<td>70 ± 5 Shore A</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>ISO 37</td>
<td></td>
<td>≥ 13 MPa</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>ISO 37</td>
<td></td>
<td>≥ 300 %</td>
</tr>
<tr>
<td>Tear resistance, crescent specimen</td>
<td>ISO 34-1</td>
<td></td>
<td>≥ 20 N/mm</td>
</tr>
<tr>
<td>Compression set after 70 h at 100 °C</td>
<td>ISO 815-1</td>
<td></td>
<td>≤ 40 %</td>
</tr>
</tbody>
</table>

**TEMPERATURE**
- Working temperature: - 40/+ 130 °C

**AGEING**
- Δ Tensile strength after 168 h at 70 °C | ASTM D573 | ≤ - 20 % |
- Δ Elongation at break after 168 h at 70 °C | ASTM D573 | ≤ - 30 % |
- Oil IRM 903, Δ Tensile strength after 72 h at 100 °C | ASTM D573 | ≤ - 20 % |
- Oil IRM 903, Δ Elongation at break after 72 h at 100 °C | ASTM D573 | ≤ - 40 % |

**OIL RESISTANCE**
- Oil IRM 901, Δ volume after 70 h at 100 °C | ASTM D471 | - 20/5 % |
- Oil IRM 903, Δ volume after 70 h at 100 °C | ASTM D471 | ± 5 % |

**CHEMICAL RESISTANCE**
- Diluted acids and bases: Very good
- Concentrated acids and bases: Good
- Ozone: Medium
- Oils and hydrocarbons: Very good

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Width (mm)</th>
<th>Length (m)</th>
<th>Weight (kg/m²)</th>
<th>Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 ± 0.3</td>
<td>1400 ± 2 %</td>
<td>15 ± 2 %</td>
<td>2.60</td>
<td>2 sides matt</td>
</tr>
<tr>
<td>3 ± 0.3</td>
<td>1400 ± 2 %</td>
<td>10 ± 2 %</td>
<td>3.90</td>
<td>2 sides matt</td>
</tr>
<tr>
<td>4 ± 0.4</td>
<td>1400 ± 2 %</td>
<td>10 ± 2 %</td>
<td>5.20</td>
<td>2 sides matt</td>
</tr>
<tr>
<td>5 ± 0.4</td>
<td>1400 ± 2 %</td>
<td>10 ± 2 %</td>
<td>6.50</td>
<td>1 side smooth/1 side matt</td>
</tr>
<tr>
<td>6 ± 0.5</td>
<td>1400 ± 2 %</td>
<td>10 ± 2 %</td>
<td>7.80</td>
<td>1 side smooth/1 side matt</td>
</tr>
</tbody>
</table>

**IDENTIFICATION**

**Branding**
Without.

**Packaging**
Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm.
Thickness > 6 mm in roll.

**Wrapping**
Black polyethylene film.

**Labelling**
Self-adhesive label indicating product name, dimensions, area in m², nominal weight, and product code to allow product traceability.

---

www.trelleborg.com/elastomerlaminates