Data sheet

EPDM rubber lining

Black EPDM Rubber 55 ± 5 Shore A

- Technical characteristics
- Material properties
## EPDM rubber lining

**Black EPDM Rubber** 55 ± 5 Shore A

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Black Rubber</th>
<th>Relevant Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness</td>
<td>55 ± 5°C</td>
<td>-</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>≥ 4.5 Mpa</td>
<td>ISO 7619-1</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>≥ 200%</td>
<td>ISO 37</td>
</tr>
<tr>
<td>Compression Set</td>
<td></td>
<td>ISO 37</td>
</tr>
<tr>
<td>72 hours 25%, 23°C</td>
<td>≤ 20%</td>
<td>ISO 815-1</td>
</tr>
<tr>
<td>24 hours 25%, 100°C</td>
<td>≤ 55%</td>
<td>-</td>
</tr>
<tr>
<td>Ageing 168 hours, 100°C</td>
<td></td>
<td>ISO 188</td>
</tr>
<tr>
<td>change in hardness</td>
<td>≤ 12 ° Shore A</td>
<td>-</td>
</tr>
<tr>
<td>change in tensile strength</td>
<td>≤ 25%</td>
<td>-</td>
</tr>
<tr>
<td>change in elongation at break</td>
<td>≤ 60%</td>
<td>-</td>
</tr>
<tr>
<td>Liquid resistance</td>
<td></td>
<td>ISO 1817</td>
</tr>
<tr>
<td>72 hours in destilled water</td>
<td>≤ 10%</td>
<td>at 70°C</td>
</tr>
<tr>
<td>4 hours ASTM oil nr</td>
<td>≤ 10%</td>
<td>at 23°C</td>
</tr>
<tr>
<td>24 hours ammonia solution 3%</td>
<td>≤ 1%</td>
<td>at 40°C</td>
</tr>
<tr>
<td>24 hours 50-50 Sulfuric acid solution</td>
<td>≤ 1%</td>
<td>at 40°C</td>
</tr>
<tr>
<td>Non burning</td>
<td>B2</td>
<td>DIN 4102-1</td>
</tr>
<tr>
<td>Minimum operating temperature</td>
<td>-30°C</td>
<td>-</td>
</tr>
<tr>
<td>Maximum operating temperature</td>
<td>120°C</td>
<td>-</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>EPDM</th>
<th>Good</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical insulation</td>
<td>GOOD</td>
</tr>
<tr>
<td>Flameproof</td>
<td>POOR</td>
</tr>
<tr>
<td>Gas permeability</td>
<td>MEDIUM</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>150 / -40°C</td>
</tr>
<tr>
<td>Compression Deformation</td>
<td>VERY GOOD</td>
</tr>
<tr>
<td>Aging in the sun</td>
<td>MEDIUM</td>
</tr>
<tr>
<td>Wear resistance</td>
<td>VERY GOOD</td>
</tr>
<tr>
<td>Oxidation Resistance</td>
<td>GOOD</td>
</tr>
<tr>
<td>Ozone Resistance</td>
<td>MEDIUM</td>
</tr>
<tr>
<td>Water</td>
<td>VERY GOOD</td>
</tr>
</tbody>
</table>

### Chemical Resistance

- Steam, detergents, sodium hydroxide solutions, silicone oils, greases and more. Not compatible with mineral oil products: lubricants, oils, fuels.
- Aliphatic Hydrocarbons: POOR
- Aromatic Hydrocarbons: POOR
- Chlorinated Solvent: POOR
- Oxygenated Solvent: GOOD
- Natural Gas: MEDIUM
- Fuel Oil: POOR
- Dilute Acids: GOOD
- Concentrated Acids: MEDIUM