NBR 75 Compound 366540

ERIKS’ 366540 is a specialist grade NBR compound developed for drinking water applications with NSF61 approval and WRAS certification.

**Description**
- **Chemical composition**: Acrylonitrile-butadiene rubber (nitrile)
- **Physical form**: O-rings, moulded parts
- **Colour**: Black
- **Temperature resistance**: -30°C to +120°C

**Application**
- Drinking water

**Compliances**
- NSF61
- WRAS
- ADI
- REACH
- RoHS

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**Table 1: Physical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test standard</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness</td>
<td>ASTM D2240</td>
<td>74±5</td>
<td>Shore A</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>ASTM D412</td>
<td>298</td>
<td>%</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>ASTM D412</td>
<td>19.1</td>
<td>MPa</td>
</tr>
<tr>
<td>100% Modulus</td>
<td>ASTM D412</td>
<td>4.4</td>
<td>MPa</td>
</tr>
<tr>
<td>Compression set – 24 hours at 100°C Slab</td>
<td>ASTM D395</td>
<td>9</td>
<td>%</td>
</tr>
</tbody>
</table>

**Table 2: Ageing properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test standard</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
</table>
| Heat ageing – 70 hours at 100°C
  Hardness change            | ASTM D573     | +2    | Shore A       |
  Elongation at break change |               | -22   | %     |
  Tensile strength change    |               | -7    | %     |
  Volume change              |               | 0     | %     |
| Ageing water – 168 hours at 100°C
  Hardness change            | ASTM D471     | -2    | Shore A       |
  Elongation at break change |               | -11   | %     |
  Tensile strength change    |               | -11   | %     |
  Volume change              |               | +4.4  | %     |

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