FKM 90 Compound 514320

ERIKS’ 514320 is a standard grade FKM co-polymer compound, based on Genuine Viton® with a broad chemical resistance and good compression set values. ERIKS’ standard FKM compound for high pressure applications.

**Description**
- **Chemical composition**: Co-polymer of Hexafluoropropylene and vinylidene fluoride
- **Physical form**: O-rings, moulded parts
- **Colour**: Black
- **Temperature resistance**: -20°C to +200°C

**Application**
- Wide range of chemicals
- Hydrocarbons at high temperature
- Covalent or non polar solvents
- Fluid power
- High pressure

**Compliances**
- ADI
- REACH
- RoHS

**Additional information**
- Wide range of O-rings available from stock

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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>ISO 48</td>
<td>88±5</td>
<td>IRHD</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>ISO 37</td>
<td>120</td>
<td>%</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>ISO 37</td>
<td>12</td>
<td>MPa</td>
</tr>
<tr>
<td>100% Modulus</td>
<td>ISO 37</td>
<td>9</td>
<td>MPa</td>
</tr>
<tr>
<td>Compression set – 24 hours at 200°C Slab</td>
<td>ISO 815</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>20</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 250°C
  Hardness change           | ISO 188       | +3    | IRHD |
  Tensile strength change   |               | +5    | %    |
  Elongation change         |               | -7    | %    |
| Immersion in IRM 903 oil - 70 hours at 175°C
  Hardness change           | ISO 1817      |       | IRHD |
  Elongation at break change|               | +1.4  | %    |
  Tensile strength change   |               | +1.4  | %    |
  Volume change             |               | -1    | %    |
  -2                         |               | -17   | %    |

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