KLINGERSIL® C-4400

KLINGERSIL® C-4400 is a universal material for safe and reliable sealing. It consists of a unique matrix, which offers an excellent combination of different properties.

Aramid fibres bonded with NBR.
Resistant to oils, water, steam, gases, salt solutions, fuels, alcohols, moderate organic and inorganic acids, hydrocarbons, lubricants and refrigerants.

Key features:
» Universal high pressure gasket material
» Dimensionally stable
» Consistent material composition

Benefits:
» Excellent price/performance ratio
» Suitable for many different media
» Very good resistance to refrigerants

Certificates and approvals:
» BAM-tested
» DIN-DVGW
» DIN-DVGW W 270
» DVGW VP 401
» Elastomer-Guideline
» ÖVGW Reg.No. G 1.912
» German Lloyd
» TA-Luft (Clean air)
» Fire-Safe acc. DIN EN ISO 10497

Properties: referring to KLINGERSIL® product range

Industries:

www.klinger.co.at
Typical technical data for thickness 2.0 mm:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressibility ASTM F 36 J</td>
<td>% 11</td>
</tr>
<tr>
<td>Recovery ASTM F 36 J</td>
<td>% 55</td>
</tr>
<tr>
<td>Stress relaxation DIN 52913</td>
<td>50 MPa, 16 h/175°C MPa 37</td>
</tr>
<tr>
<td>Stress relaxation 50 MPa, 16 h/300°C MPa 25</td>
<td></td>
</tr>
<tr>
<td>Stress relaxation BS 7531</td>
<td>40 MPa, 16 h/300°C MPa 25</td>
</tr>
<tr>
<td>KLINGER cold/hot compression</td>
<td>thickness decrease at 23°C % 10</td>
</tr>
<tr>
<td>thickness decrease at 300°C % 20</td>
<td></td>
</tr>
<tr>
<td>Tightness DIN 28090-2 mg/s x m 0.02</td>
<td></td>
</tr>
<tr>
<td>Specific leak rate VDI 2440 1.64E-08</td>
<td></td>
</tr>
<tr>
<td>Thickness increase after fluid immersion ASTM F 146</td>
<td>% 3</td>
</tr>
<tr>
<td>oil IRM 903: 5 h/150°C % 5</td>
<td></td>
</tr>
<tr>
<td>fuel B: 5 h/23°C % 5</td>
<td></td>
</tr>
<tr>
<td>Density g/cm³</td>
<td>1.6</td>
</tr>
<tr>
<td>Average surface resistance Ω</td>
<td>1.4x10E12</td>
</tr>
<tr>
<td>Average specific volume resistance Ω cm 1.2x10E12</td>
<td></td>
</tr>
<tr>
<td>Average dielectric strength Eε kV/mm 21.6</td>
<td></td>
</tr>
<tr>
<td>Average power factor 50 Hz tan δ 0.131</td>
<td></td>
</tr>
<tr>
<td>Average dielectric coefficient 50 Hz ρf 9.2</td>
<td></td>
</tr>
<tr>
<td>Thermal conductivity λ W/mK 0.42</td>
<td></td>
</tr>
<tr>
<td>Classification acc. to BS 7531:2006 Grade AY</td>
<td></td>
</tr>
<tr>
<td>ASME-Code sealing factors</td>
<td></td>
</tr>
<tr>
<td>for gasket thickness 1.0 mm</td>
<td>tightness class 0.1mg/s x m MPa y 15 m 1.2</td>
</tr>
<tr>
<td>for gasket thickness 2.0 mm</td>
<td>tightness class 0.1mg/s x m MPa y 15 m 1.6</td>
</tr>
<tr>
<td>for gasket thickness 3.0 mm</td>
<td>tightness class 0.1mg/s x m MPa y 15 m 4.0</td>
</tr>
</tbody>
</table>

Dimensions of the standard sheets:

Sizes:

1000 x 1500 mm, 2000 x 1500 mm

Thicknesses:

0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm

pT diagram for thickness 2.0 mm:

1. In area one, the gasket material is normally suitable subject to chemical compatibility.
2. In area two, the gasket material may be suitable but a technical evaluation is recommended.
3. In area three, do not install the gasket without a technical evaluation.

Always refer to the chemical resistance of the gasket to the media.

Certified acc. to DIN EN ISO 9001:2008 Subject to technical alterations. Status: March 2016

Rich.: Klinger Dichtungstechnik GmbH & Co KG » Am Kanal 8-10 » A-2352 Gumpoldskirchen, Austria
Tel +43 (0) 2252/62599-137 » Fax +43 (0) 2252/62599-296 » e-mail: marketing@klinger.co.at

www.klinger.co.at