GAR-MAX®

SELF-LUBRICATING FIBERGLASS REINFORCED PLAIN BEARINGS

APPLICATIONS

**Industrial** – Steering linkages, hydraulic cylinder pivots, king pin bearings, boom lifts, scissor lifts, cranes, hoists, lift gates, backhoes, trenchers, skid steer loaders, front end loaders, etc.

CHARACTERISTICS

- High load capacity
- Excellent shock and misalignment resistance
- Excellent contamination resistance
- Very good friction and wear properties
- Good chemical resistance
- Very good dry wear performance
- GAR-MAX® bearing sizes available according to DIN ISO 4379 for the replacement of traditional greased bronze bearings

AVAILABILITY

**Bearing forms available in standard dimensions:** Plain cylindrical bushes

**Bearing forms made to order:** cylindrical bushes with non-standard lengths and wall thickness, flanged bearings, hexagonal and square bores, liner on outer diameter, customized bearing designs

For questions and assistance, contact a GGB engineer at: [https://www.ggbearings.com/en/contact](https://www.ggbearings.com/en/contact)
### BEARING PROPERTIES

<table>
<thead>
<tr>
<th>GENERAL</th>
<th>IMPERIAL UNITS</th>
<th>IMPERIAL VALUE</th>
<th>METRIC UNITS</th>
<th>METRIC VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum load, p</td>
<td>Static</td>
<td>psi</td>
<td>30 000</td>
<td>N/mm²</td>
</tr>
<tr>
<td></td>
<td>Dynamic</td>
<td>psi</td>
<td>20 000</td>
<td>N/mm²</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>Min</td>
<td>°F</td>
<td>-320</td>
<td>°C</td>
</tr>
<tr>
<td></td>
<td>Max</td>
<td>°F</td>
<td>320</td>
<td>°C</td>
</tr>
</tbody>
</table>

### DRY

<table>
<thead>
<tr>
<th>Maximum sliding speed, U</th>
<th>fpm</th>
<th>25</th>
<th>m/s</th>
<th>0.13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum pU factor</td>
<td>psi x fpm</td>
<td>30 000</td>
<td>N/mm² x m/s</td>
<td>1.05</td>
</tr>
<tr>
<td>Coefficient of friction, f</td>
<td>0.05 - 0.30*</td>
<td>0.05 - 0.30*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### RECOMMENDATIONS

<table>
<thead>
<tr>
<th>Shaft surface roughness, Ra</th>
<th>µin</th>
<th>6 - 16</th>
<th>µm</th>
<th>0.15 - 0.40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>HB</td>
<td>&gt; 350</td>
<td>HB</td>
<td>&gt; 350</td>
</tr>
<tr>
<td>For longer service life</td>
<td>HB</td>
<td>&gt; 480</td>
<td>HB</td>
<td>&gt; 480</td>
</tr>
</tbody>
</table>

* Depending on operating conditions

### OPERATING PERFORMANCE

- **Dry**: Very Good
- **Oil lubricated**: Fair
- **Grease lubricated**: Fair
- **Water lubricated**: Fair
- **Process fluid lubricated**: Poor

### FOR SUPERIOR PERFORMANCE

- **Oil lubricated**: GAR-FIL
- **Grease lubricated**: DX / DX10
- **Water lubricated**: HPF / HPM
- **Process fluid lubricated**: GAR-FIL

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GGB, an EnPro Industries company