

## GAR-MAX<sup>®</sup>

### 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<sup>®</sup> 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



BEARING PROPERTIES		UNITS	VALUE
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**GENERAL**

Maximum load, p	Static	N/mm <sup>2</sup>	210
	Dynamic	N/mm <sup>2</sup>	140
Operating temperature	Min	°C	- 195
	Max	°C	160

**DRY**

Maximum sliding speed, U		m/s	0.13
Maximum pU factor		N/mm <sup>2</sup> x m/s	1.05
Coefficient of friction, f			0.05 - 0.30*

**RECOMMENDATIONS**

Shaft surface roughness, Ra		µm	0.15 - 0.40
Shaft surface hardness	Normal	HB	> 350
	For longer service life	HB	> 480

\* 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

**MICROSECTION**

