GAR-FIL®

FIBER REINFORCED COMPOSITE BEARING WITH PTFE TAPE LINER

APPLICATIONS
Industrial – Valves, scissor lifts, pulleys, toggle linkages, etc.

CHARACTERISTICS
- Proprietary filled PTFE tape liner
- High load capacity
- Good chemical resistance
- Machinable bearing surface
- High rotational speed capacity
- Very good friction and wear properties
- Excellent contamination resistance

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
Very Good

Very Good

Fair

Fair

Very Good

DX / DX10

HPF / HPM

BEARING PROPERTIES

IMPERIAL UNITS

IMPERIAL VALUE

METRIC UNITS

METRIC VALUE

GENERAL

Maximum load, \( p \)

Static

Dynamic

Dynamic

Operating temperature

Min

Max

Dynamic

Dynamic

psi

psi

°F

°F

N/mm²

N/mm²

°C

°C

20 000

20 000

-320

-320

140

140

195

205

D R Y

Maximum sliding speed, \( U \)

fpm

m/s

2.5

Max

°F

°C

500

2.5

400

205

Maximum \( pU \) factor

psi x fpm

N/mm² x m/s

1.23

Coefficient of friction, \( f \)

0.02 - 0.12*

0.02 - 0.12*

RECOMMENDATIONS

Shaft surface roughness, \( Ra \)

μin

μm

≤ 16

≤ 0.4

Shaft surface hardness

HB

HB

> 200

> 200

* Depending on operating conditions

OPERATING PERFORMANCE

Dry

Very Good

Oil lubricated

Very Good

Grease lubricated

Fair

Water lubricated

Fair

Process fluid lubricated

Very Good

FOR SUPERIOR PERFORMANCE

Grease lubricated

DX / DX10

Water lubricated

HPF / HPM

MICROSECTION

Sliding Layer

Backing

GAR-FIL® Datasheet

For additional product offerings visit: