

# 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



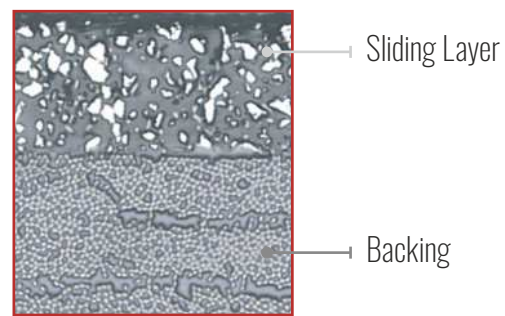
BEARING PROPERTIES		UNITS	VALUE
<b>GENERAL</b>			
Maximum load, p	Static	N/mm <sup>2</sup>	140
	Dynamic	N/mm <sup>2</sup>	140
Operating temperature	Min	°C	- 195
	Max	°C	205
<b>DRY</b>			
Maximum sliding speed, U		m/s	2.5
Maximum pU factor		N/mm <sup>2</sup> x m/s	1.23
Coefficient of friction, f			0.02 - 0.12*
<b>RECOMMENDATIONS</b>			
Shaft surface roughness, Ra		µm	≤ 0.4
Shaft surface hardness		HB	> 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**



For additional product offerings visit:  
<https://www.ggbearings.com/en/our-products/fiber-reinforced-composite-bearings/gar-fil>