



GAR-FIL®

Fiber Reinforced Composite Bearings with PTFE Tape Liner



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

Non-standard parts 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



GAR-FIL® Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
General					
Maximum load, p	Static	psi	20 000	N/mm ²	140
	Dynamic	psi	20 000	N/mm ²	140
Operating temperature	Min	°F	- 320	°C	- 195
	Max	°F	400	°C	205
Dry					
Maximum sliding speed, U		fpm	500	m/s	2.5
Maximum pU factor		psi x fpm	35 000	N/mm ² x m/s	1.23
Coefficient of friction			0.02 - 0.12*		0.02 - 0.12*
Recommendations					
Shaft surface roughness, Ra		µin	≤ 16	µm	≤ 0.4
Shaft surface hardness		HB	> 200	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

