HPF

FIBER REINFORCED COMPOSITE BEARINGS WITH PTFE TAPE LINER

APPLICATIONS

Industrial – Servo-motor bearings, operating ring sliding segments, linkage bearings, wicket gate bearings, guide vane bearings, intake gate sliding segments, intake gate roller bearings, spillway gate bearings, trash rate bearings, fish screen bearings, trunnion bearings, bladebearings, injector bearings, deflector bearings, ball and butterfly trunnion bearings, etc.

CHARACTERISTICS

- Proprietary filled PTFE tape machinable liner
- Designed for hydropower applications
- Machinable bearing surface
- High load capacity
- Excellent shock and edge loading capacity
- Excellent corrosion resistance
- Dimensionally stable - very low water absorption, low swelling
- Environmentally friendly
- Tested by Powertech Test to evaluate performance of self-lubricated bushings in wicket gate applications

AVAILABILITY

Bearing forms available in standard dimensions: Plain cylindrical bushes, sliding plates

Bearing forms made to order: cylindrical bushes with non-
standard dimensions, customized bearing designs

For questions and assistance, contact a GGB engineer at: **https://www.ggbearings.com/en/contact**

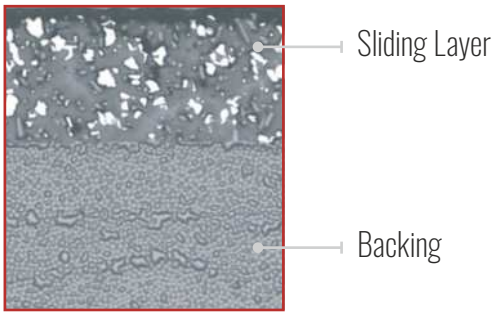
BEARING PROPERTIES		UNITS	VALUE
GENERAL			
Maximum load, p	Dynamic	N/mm^2	140
	Static	N/mm^2	140
Operating temperature	Min	°C	- 195
	Max	°C	140
DRY			
Maximum sliding speed, U		m/s	2.5
Maximum pU factor		N/mm^2 x m/s	1.23
Coefficient of friction			0.02 - 0.10*
GREASED LUBRICATION			
Coefficient of friction			0.02 - 0.08*
RECOMMENDATIONS			
Shaft surface roughness, Ra		µm	0.2 - 0.8
Shaft surface hardness	Normal	HB	> 180
	For longer service life	HB	> 480

* Depending on operating conditions

OPERATING PERFORMANCE	
Dry	Very Good
Oil lubricated	Very Good
Grease lubricated	Poor
Water lubricated	Very Good
Process fluid lubricated	Good

FOR SUPERIOR PERFORMANCE	
Grease lubricated	DX / DX10

MICROSECTION



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