EP®79

SELF-LUBRICATING ENGINEERED PLASTIC BEARINGS

compliant RoHS

APPLICATIONS

General – Generally applicable within the limits of the material properties

Automotive – Automatic gears

Industrial – Domestic appliances, control valves, fittings, textile machines and many more

CHARACTERISTICS

- Excellent flow erosion and cavitation resistance
- Excellent bearing performance in fully lubricated applications
- Corrosion resistant in humid/saline environments
- Excellent dimensional stability
- Very good weight performance ratio
- Within injection moulding tool feasibility unlimited dimensions and design features
- Compliant to EVL, WEEE and RoHS specifications

AVAILABILITY

Bearing forms made to order: Cylindrical bushings, flanged bearings, thrust washers, sliding plates, half-bearings, customized bearing designs

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

BEARING PROPERTIES		IMPERIAL UNITS	IMPERIAL VALUE	METRIC UNITS	METRIC VALUE
GENERAL					
Maximum load, p	Static	psi	19 000	N/mm^2	130
Operating temperature	Min	°F	- 330	°C	- 200
	Max	°F	500	°C	260
Coefficient of linear thermal expansion		10^{-6}/F	5	10^{-6}/K	9
LUBRICATED					
Maximum sliding speed, U		fpm	2 000	m/s	10.0
Maximum pU factor		psi x fpm	286 000	N/mm^2 x m/s	10.0
Coefficient of friction, f			0.005 - 0.1		0.005 - 0.1
RECOMMENDATIONS					
Shaft surface roughness, Ra		µin	8 - 32	µm	0.2 - 0.8
Shaft surface hardness		HV	> 500	HV	> 500

OPERATING PERFORMANCE	
Dry	Not recommended
Oil lubricated	Very Good
Grease lubricated	Very Good
Water lubricated	Fair
Process fluid lubricated	Good after resistance testing

FOR SUPERIOR PERFORMANCE	
Dry	EP73
Water lubricated	EP64

MICROSECTION