GGB
BEARING TECHNOLOGY
an EnPro Industries company

The Global Leader
in High Performance Bearing Solutions

EP™12

Self-Lubricating Engineered Plastic Bushings




CHARACTERISTICS

- Good bushing performance in dry working conditions
- Good bushing performance in lubricated or marginally lubricated applications
- Corrosion resistant in humid/saline environments
- Very good price performance ratio
- 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 bushings, thrust washers, sliding plates, half-bushings, customized bearing designs

APPLICATIONS

General: Generally applicable within the limits of the material properties

Industrial: Domestic appliances, furniture, office equipment, sports equipment and many more




For additional market / product offerings, go to https://www.ggbearings.com

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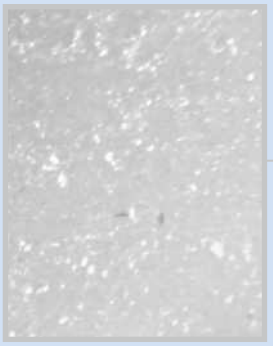
EP™12 Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
General					
Maximum load, p	Static	psi	9 500	N/mm²	65
Operating temperature	Min Max	°F °F	- 40 260	°C °C	- 40 125
Coefficient of linear thermal expansion		10^{-6}/F	67	10^{-6}/K	22
Dry					
Maximum sliding speed, U		fpm	200	m/s	1.0
Maximum pU factor	for A_H/A_C = 5 for A_H/A_C = 10 for A_H/A_C = 20	psi x fpm psi x fpm psi x fpm	1 100 2 500 5 100	N/mm² x m/s N/mm² x m/s N/mm² x m/s	0.04 0.09 0.18
Coefficient of friction			0.18 - 0.30		0.18 - 0.30
Recommendations					
Surface roughness, Ra		µin	4 - 20	µm	0.1 - 0.5
Surface hardness		HV	> 200	HV	> 200

Operating Performance	
Dry	Very Good
Oil lubricated	Good
Grease lubricated	Good
Water lubricated	Fair
Process fluid lubricated	Good after resistance testing

For Superior Performance	
Water lubricated	EP22

Microsection



POM +
Solid Lubricant

https://www.ggbearings.com/en/products/solid-polymer/ep12