

EP®

**SELF-LUBRICATING
ENGINEERED PLASTIC BEARINGS**



APPLICATIONS

General – Generally applicable within the limits of the material properties

Industrial – Medical equipment, awnings and blinds, scientific equipment, gaming equipment, office equipment, etc.

CHARACTERISTICS

- Good bearing performance in dry working conditions
- Good bearing 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 ELV, WEEE and RoHS specifications

AVAILABILITY

Bearing forms available in standard dimensions:

Plain cylindrical bushes, plain flanged bushes

Bearing forms made to order: Standard forms in special dimensions, thrust washers, half-bearings, sliding plates, customized bearing designs



BEARING PROPERTIES		UNITS	VALUE
GENERAL			
Maximum load, p	Static	N/mm ²	80
	Dynamic	N/mm ²	40
Operating temperature	Min	°C	- 40
	Max	°C	140
Coefficient of linear thermal expansion		10 ⁻⁶ /K	22
DRY			
Maximum sliding speed, U		m/s	1.0
Maximum pU factor	For A _H / A _C = 5	N/mm ² x m/s	0.06
	For A _H / A _C = 10	N/mm ² x m/s	0.24
	For A _H / A _C = 20	N/mm ² x m/s	1.00
Coefficient of friction, f			0.15 - 0.30
RECOMMENDATIONS			
Shaft surface roughness, Ra		µm	0.2 - 0.8
Shaft surface hardness		HV	> 200

OPERATING PERFORMANCE

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

FOR SUPERIOR / LEAD-FREE PERFORMANCE

Water lubricated	EP22
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MICROSECTION

PPA +
Solid Lubricant +
Fillers