

EPT™

Self-Lubricating Engineered Plastic Bearings





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 EVL, 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

APPLICATIONS

General: Generally applicable within the limits of the material properties

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



EP™ Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
General					
Maximum load, p	Static	psi	12 000	N/mm ²	80
	Dynamic	psi	6 000	N/mm ²	40
Operating temperature	Min	°F	- 40	°C	- 40
	Max	°F	280	°C	140
Coefficient of linear thermal expansion		10 ⁻⁶ /F	12	10 ⁻⁶ /K	22
Dry					
Maximum sliding speed, U		fpm	200	m/s	1.0
Maximum pU factor	for A _H /A _C = 5	psi x fpm	1 700	N/mm ² x m/s	0.06
	for A _H /A _C = 10	psi x fpm	6 800	N/mm ² x m/s	0.24
	for A _H /A _C = 20	psi x fpm	28 600	N/mm ² x m/s	1.00
Coefficient of friction			0.15 - 0.30		0.15 - 0.30
Recommendations					
Surface roughness, Ra		µin	8 - 32	µm	0.2 - 0.8
Surface hardness		HV	> 200	HV	> 200

Operating Performance

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

For Superior Performance

Water lubricated	EP22
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Microsection



PA6.6T +
Solid Lubricant +
Fillers