

EPT™63

Self-Lubricating Engineered Plastic Bearings





CHARACTERISTICS

- Good bearing performance in dry working conditions
- Good performance in lubricated or marginally lubricated applications
- Corrosion resistant in humid/saline environments
- Suitable for very high temperature applications
- 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: Domestic appliances, valve technology, electronics assembly, agricultural machinery and many more



EP™63 Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
General					
Maximum load, p	Static	psi	13 000	N/mm ²	90
Operating temperature	Min	°F	-150	°C	-100
	Max	°F	550	°C	290
Coefficient of linear thermal expansion		10 ⁻⁶ /F	28	10 ⁻⁶ /K	50
Dry					
Maximum sliding speed, U		fpm	200	m/s	1.0
Maximum pU factor	for A _H /A _C = 5	psi x fpm	4 500	N/mm ² x m/s	0.16
	for A _H /A _C = 10	psi x fpm	18 800	N/mm ² x m/s	0.66
	for A _H /A _C = 20	psi x fpm	75 200	N/mm ² x m/s	2.63
Coefficient of friction			0.12 - 0.21		0.12 - 0.21
Recommendations					
Surface roughness, Ra		µin	4 - 20	µm	0.1 - 0.5
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	EP64
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Microsection



PEEK +
Solid Lubricant +
Fillers