EP®22

SELF-LUBRICATING ENGINEERED PLASTIC BEARINGS

APPLICATIONS

General – Generally applicable within the limits of the material properties

Industrial – Domestic appliances, chemical equipment, office equipment, sports equipment and many more

CHARACTERISTICS

- Good bearing performance in dry working conditions
- Very 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 flanges bushes

Bearing forms made to order: Cylindrical bushings, flanged bushings, thrust washers, bushings, plates, special bearings

BEARING PROPERTIES		UNITS	VALUE
GENERAL			
Maximum load, p	Static	N/mm^2	50
Operating temperature	Min	°C	- 50
	Max	°C	170
Coefficient of linear thermal expansion		$10^{-6}/K$	90
DRY			
Maximum sliding speed, U		m/s	1.0
Maximum pU factor	For A_H / A_C = 5	N/mm^2 x m/s	0.05
	For A_H / A_C = 10	N/mm^2 x m/s	0.10
	For A_H / A_C = 20	N/mm^2 x m/s	0.20
Coefficient of friction, f			0.22 - 0.37
RECOMMENDATIONS			
Shaft surface roughness, Ra		µm	0.1 - 0.5
Shaft surface hardness		HV	> 200

OPERATING PERFORMANCE	
Dry	Very Good
Oil lubricated	Good
Grease lubricated	Good
Water lubricated	Very Good
Process fluid lubricated	Good after resistance testing

MICROSECTION