

## EPT™22

### Self-Lubricating Engineered Plastic Bushings





#### CHARACTERISTICS

- Good bushing performance in dry working conditions
- Very 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 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, chemical equipment, office equipment, sports equipment and many more



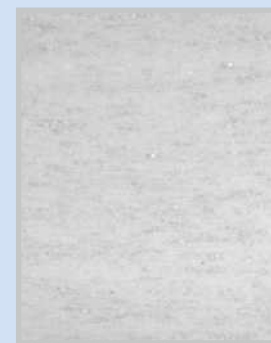
## EP™22 Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
<b>General</b>					
Maximum load, p	Static	psi	7 000	N/mm <sup>2</sup>	50
Operating temperature	Min	°F	- 60	°C	- 50
	Max	°F	340	°C	170
Coefficient of linear thermal expansion		10 <sup>-6</sup> /F	50	10 <sup>-6</sup> /K	90
<b>Dry</b>					
Maximum sliding speed, U		fpm	200	m/s	1.0
Maximum pU factor	for A <sub>H</sub> /A <sub>C</sub> = 5	psi x fpm	1 400	N/mm <sup>2</sup> x m/s	0.05
	for A <sub>H</sub> /A <sub>C</sub> = 10	psi x fpm	2 800	N/mm <sup>2</sup> x m/s	0.10
	for A <sub>H</sub> /A <sub>C</sub> = 20	psi x fpm	5 700	N/mm <sup>2</sup> x m/s	0.20
Coefficient of friction			0.22 - 0.37		0.22 - 0.37
<b>Recommendations</b>					
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	Very Good
Process fluid lubricated	Good after resistance testing

### Microsection



PBT +  
Solid Lubricant