

## EPT<sup>TM</sup>64

### Self-Lubricating Engineered Plastic Bearings



#### CHARACTERISTICS

- Good performance in lubricated or marginally lubricated applications
- Excellent flow erosion and cavitation resistance
- 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

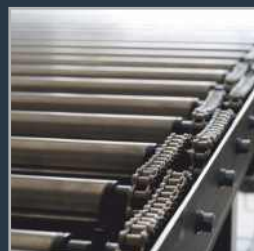
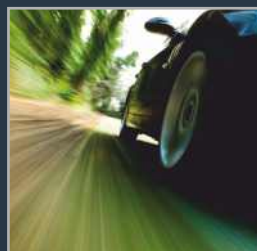
**Bearing forms made to order:** cylindrical bushings, flanged bearings, thrust washers, sliding plates, half-bearings, customized bearing designs



#### APPLICATIONS

**General:** Generally applicable within the limits of the material properties

**Industrial:** Domestic appliances, transportation equipment, apparatus engineering, conveyor equipment and many more



## EP™64 Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
<b>General</b>					
Maximum load, p	Static	psi	18 000	N/mm <sup>2</sup>	125
Operating temperature	Min	°F	- 150	°C	- 100
	Max	°F	550	°C	290
Coefficient of linear thermal expansion		10 <sup>-6</sup> /F	8	10 <sup>-6</sup> /K	14
<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	2 500	N/mm <sup>2</sup> x m/s	0.09
	for A <sub>H</sub> /A <sub>C</sub> = 10	psi x fpm	10 000	N/mm <sup>2</sup> x m/s	0.35
	for A <sub>H</sub> /A <sub>C</sub> = 20	psi x fpm	40 000	N/mm <sup>2</sup> x m/s	1.40
Coefficient of friction			0.3 - 0.5		0.3 - 0.5
<b>Recommendations</b>					
Surface roughness, Ra		μin	4 - 20	μm	0.1 - 0.5
Surface hardness		HV	> 450	HV	> 450

### Operating Performance

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

### Microsection



PEEK +  
Solid Lubricant +  
Fillers