

## EPT<sup>TM</sup>79

### Self-Lubricating Engineered Plastic Bearings



#### CHARACTERISTICS

- Excellent flow erosion and cavitation resistance
- Excellent performance in fully lubricated applications
- Corrosion resistant in humid/saline environments
- Excellent dimensional stability
- 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

**Automotive:** Automatic gears

**Industrial:** Domestic appliances, control valves, fittings, textile machines and many more



## EP™79 Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
<b>General</b>					
Maximum load, p	Static	psi	19 000	N/mm <sup>2</sup>	130
Operating temperature	Min	°F	- 330	°C	- 200
	Max	°F	500	°C	260
Coefficient of linear thermal expansion		10 <sup>-6</sup> /F	5	10 <sup>-6</sup> /K	9
<b>Lubricated</b>					
Maximum sliding speed, U		fpm	2 000	m/s	10
Maximum pU factor		psi x fpm	286 000	N/mm <sup>2</sup> x m/s	10
Coefficient of friction			0.005 - 0.1		0.005 - 0.1
<b>Recommendations</b>					
Shaft surface roughness, Ra		µin	8 - 32	µm	0.2 - 0.8
Shaft surface hardness		HB	> 500	HB	> 500

### Operating Performance

Dry	Not recommended
Oil lubricated	Very Good
Grease lubricated	Very Good
Water lubricated	Fair
Process fluid lubricated	Good after resistance testing

### For Superior Performance

Dry	EP73
Water lubricated	EP64

### Microsection



PAI +  
Solid Lubricant +  
Fillers