

## EP<sup>®</sup>64

### SELF-LUBRICATING ENGINEERED PLASTIC BEARINGS



### APPLICATIONS

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

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

### 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 ELV, WEEE and RoHS specifications

### AVAILABILITY

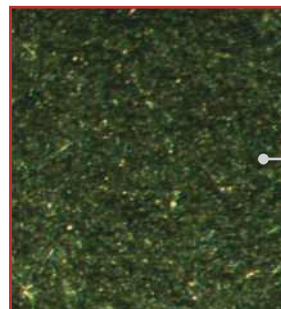
**Bearing forms made to order:** Cylindrical bushings, flanged bearings, thrust washers, sliding plates, half-bearings, customized bearing designs



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
	Min	°F	- 150	°C	- 100
Operating temperature	Max	°F	550	°C	290
	Coefficient of linear thermal expansion		10 <sup>-6</sup> /F	8	10 <sup>-6</sup> /K
<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, f			0.3 - 0.5		0.3 - 0.5
<b>RECOMMENDATIONS</b>					
Shaft surface roughness, Ra		µin	4 - 20	µm	0.1 - 0.5
Shaft 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