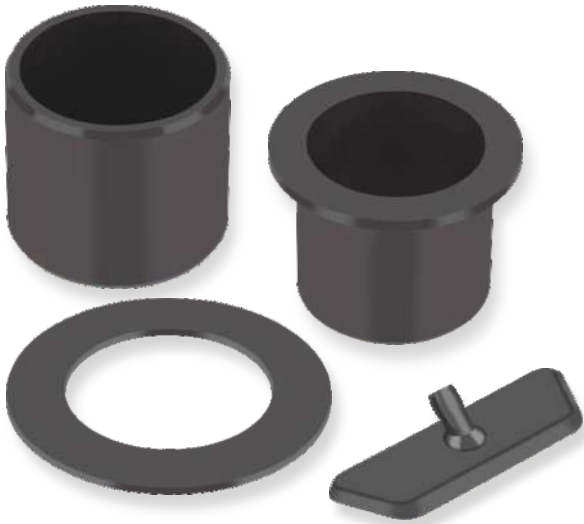


# EP<sup>®</sup>44

## SELF-LUBRICATING ENGINEERED PLASTIC BEARINGS



### APPLICATIONS

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

**Industrial** – Domestic appliances, valve technology, electronics assembly, apparatus engineering and many more

### CHARACTERISTICS

- Good bearing performance in dry working conditions
- Good bearing performance in lubricated or marginally lubricated applications
- Corrosion resistant in humid/saline environments
- Very good price performance ratio for 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

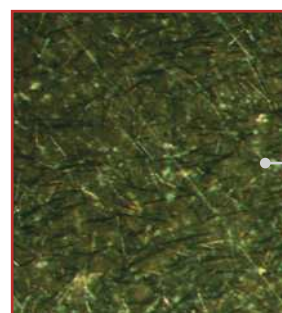


BEARING PROPERTIES		UNITS	VALUE
<b>GENERAL</b>			
Maximum load, p	Static	N/mm <sup>2</sup>	95
	Operating temperature	Min	°C
	Max	°C	240
Coefficient of linear thermal expansion		10 <sup>-6</sup> /K	27
<b>DRY</b>			
Maximum sliding speed, U		m/s	1.0
Maximum pU factor	For A <sub>H</sub> / A <sub>C</sub> = 5	N/mm <sup>2</sup> x m/s	0.11
	For A <sub>H</sub> / A <sub>C</sub> = 10	N/mm <sup>2</sup> x m/s	0.42
	For A <sub>H</sub> / A <sub>C</sub> = 20	N/mm <sup>2</sup> x m/s	1.69
Coefficient of friction, f			0.16 - 0.26
<b>RECOMMENDATIONS</b>			
Shaft surface roughness, Ra		µm	0.2 - 0.8
Shaft surface hardness		HV	> 450

### OPERATING PERFORMANCE

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

### MICROSECTION



PPS + Solid Lubricant  
+ Fillers