

EPTTM43

Self-Lubricating Engineered Plastic Bearings





CHARACTERISTICS

- Very good bearing performance in dry working conditions
- Good 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 EVL, WEEE and RoHS specifications



AVAILABILITY

Bearing forms available in standard dimensions

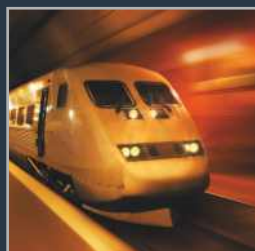
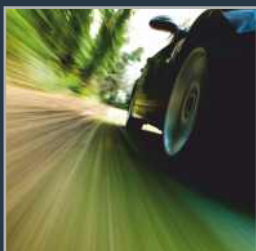
-  Plain cylindrical bushes
-  Plain flanged bushes

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, materials handling equipment, apparatus engineering, slot machines and cash boxes and many more



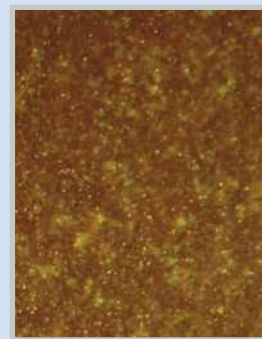
EP™43 Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
General					
Maximum load, p	Static	psi	12 000	N/mm ²	83
Operating temperature	Min	°F	- 40	°C	- 40
	Max	°F	460	°C	240
Coefficient of linear thermal expansion		10 ⁻⁶ /F	25	10 ⁻⁶ /K	45
Dry					
Maximum sliding speed, U		fpm	200	m/s	1.0
Maximum pU factor	for A _H /A _C = 5	psi x fpm	6 200	N/mm ² x m/s	0.22
	for A _H /A _C = 10	psi x fpm	25 700	N/mm ² x m/s	0.90
	for A _H /A _C = 20	psi x fpm	102 000	N/mm ² x m/s	3.59
Coefficient of friction			0.11 - 0.20		0.11 - 0.20
Recommendations					
Surface roughness, Ra		µin	8 - 32	µm	0.2 - 0.8
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



PPS +
Solid Lubricant +
Fillers