

EP[®]43

SELF-LUBRICATING ENGINEERED PLASTIC BEARINGS



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

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 ELV, WEEE and RoHS specifications
- Approved to standard FAR 25.853 and FAR 25.855 (Federal Aviation Regulations) and ASTM E162:2016 – surface flammability testing for aircraft interior applications

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

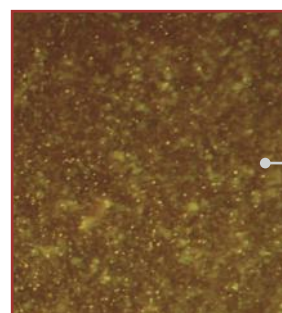


BEARING PROPERTIES		UNITS	VALUE
GENERAL			
Maximum load, p	Static	N/mm ²	83
	Operating temperature	Min	°C
	Max	°C	- 40
Coefficient of linear thermal expansion		10 ⁻⁶ /K	45
DRY			
Maximum sliding speed, U		m/s	1.0
Maximum pU factor	For A _H / A _C = 5	N/mm ² x m/s	0.22
	For A _H / A _C = 10	N/mm ² x m/s	0.90
	For A _H / A _C = 20	N/mm ² x m/s	3.59
Coefficient of friction, f			0.11 - 0.20
RECOMMENDATIONS			
Shaft surface roughness, Ra		µm	0.2 - 0.8
Shaft surface hardness		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