

EP[®]79

SELF-LUBRICATING ENGINEERED PLASTIC BEARINGS



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

CHARACTERISTICS

- Excellent flow erosion and cavitation resistance
- Excellent bearing 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 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
GENERAL			
Maximum load, p	Static	N/mm ²	130
Operating temperature	Min	°C	- 200
	Max	°C	260
Coefficient of linear thermal expansion		10 ⁻⁶ /K	9
LUBRICATED			
Maximum sliding speed, U		m/s	10.0
Maximum pU factor		N/mm ² x m/s	10.0
Coefficient of friction, f			0.005 - 0.1
RECOMMENDATIONS			
Shaft surface roughness, Ra		µm	0.2 - 0.8
Shaft surface hardness		HV	> 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