

EP[®]73

SELF-LUBRICATING ENGINEERED PLASTIC BEARINGS



APPLICATIONS

General – Generally applicable within the limits of the material properties

Automotive – Automatic gears, pumps, sealing in turbo compressors, piston rings, valve seats, sealings

Industrial – Continuous furnaces, drying furnaces for coating, textile machines and many more

Other – Aerospace: Weight saving by replacement of aluminum or metal alloys, while providing superior stability and viscosity

Applicable in extreme high and low temperatures e.g. turbojet engine compressor blade

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 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	105
	Min	°C	- 200
Operating temperature	Max	°C	260
	Coefficient of linear thermal expansion		10 ⁻⁶ /K
DRY			
Maximum sliding speed, U		m/s	2.5
Maximum pU factor	For A _H / A _C = 5	N/mm ² x m/s	0.10
	For A _H / A _C = 10	N/mm ² x m/s	0.39
	For A _H / A _C = 20	N/mm ² x m/s	1.57
Coefficient of friction, f			0.19 - 0.31
LUBRICATED			
Maximum sliding speed, U		m/s	5.0
RECOMMENDATIONS			
Shaft surface roughness, Ra		µm	0.2 - 0.8
Shaft surface hardness		HV	> 200

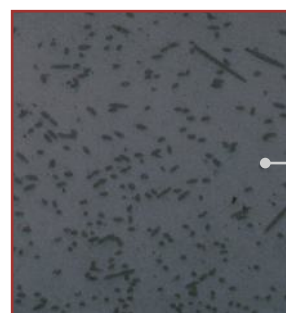
OPERATING PERFORMANCE

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

FOR SUPERIOR PERFORMANCE

Water lubricated	EP64
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MICROSECTION



PAI + Solid Lubricant + Fillers