

EP®12

SELF-LUBRICATING ENGINEERED PLASTIC BEARINGS





APPLICATIONS

General – Generally applicable within the limits of the material properties

Industrial – Domestic appliances, furniture, office equipment, sports equipment 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
- 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 DIN 75 201 for determination of the fogging characteristics of materials in the interior of automobiles
- Approved to standard DIN 75 200 / FMVSS 302 -Federal Motor Vehicle Safety Standard concerning the flammability of materials used in the occupant compartments of motor vehicles
- Approved to VDA 277 testing to determine the total level of VOC emissions from non-metallic automotive interior materials
- Approved to VDA 275 Determination of formaldehyde emission from molded parts for vehicle interiors
- Approved to VDA 270 Determination of the odour characteristics of trim materials in motor vehicles

AVAILABILITY

Bearing forms made to order: Cylindrical bushings, flange bushings, thrust washers, bushings, plates, special bearings





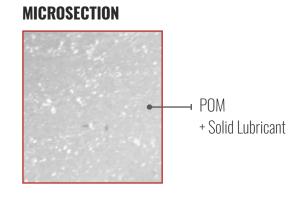


EP®12 DATASHEET



BEARING PROPERTIES		UNITS	VALUE
GENERAL			
Maximum load, p	Static	N/mm²	65
Operating temperature	Min	°C	- 40
	Max	°C	125
Coefficient of linear thermal expansion		10 ⁻⁶ /K	120
DRY			
Maximum sliding speed, U		m/s	1.0
Maximum pU factor	For $A_H / A_C = 5$	N/mm ² x m/s	0.04
	For $A_H / A_C = 10$	N/mm ² x m/s	0.09
	For $A_H / A_C = 20$	N/mm ² x m/s	0.18
Coefficient of friction, f			0.18 - 0.30
RECOMMENDATIONS			
Shaft surface roughness, Ra		μm	0.1 - 0.5
Shaft surface hardness		HV	> 200

OPERATING PERFORMANCE	
Dry	Very Good
Oil lubricated	Good
Grease lubricated	Good
Water lubricated	Fair
Process fluid lubricated	Good after resistance testing
FOR SUPERIOR / LEAD-FREE PERF	CODMANCE



Water lubricated

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