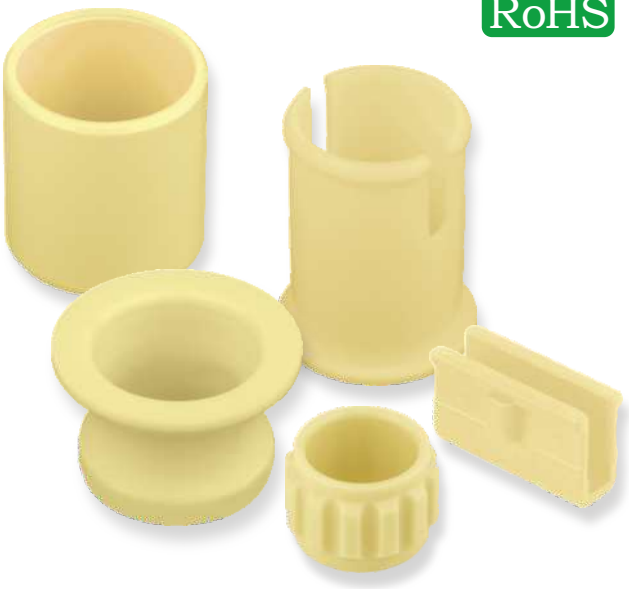
EP®30

SELF-LUBRICATING ENGINEERED PLASTIC BEARINGS



APPLICATIONS

General – Generally applicable within the limits of the material properties

Industrial – Domestic appliances, chemical equipment, office equipment, sports equipment and many more

Automotive – Waterpumps, pedals, seats, sliders

CHARACTERISTICS

- Good bushing performance in dry working conditions
- Very good bushing performance in lubricated or marginally lubricated applications
- Corrosion resistant in humid/saline environments
- Very good price performance ratio
- Very good weight performance ratio
- Very good in elasto hydrodynamic applications
- Within injection moulding tool feasibility unlimited dimensions and design features
- Compliant to ELV, WEEE and RoHS specifications
- Approved to standard DIN EN ISO 2039-1 for the evaluation of material hardness
- 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: Standard forms in special dimensions, thrust washers, half-bearings, sliding plates, customized bearing designs

For questions and assistance, contact a GGB engineer at: **https://www.ggbearings.com/en/contact**

BEARING PROPERTIES		UNITS	VALUE
GENERAL			
Maximum load, p	Static	N/mm^2	65
Operating temperature	Min	°C	- 50
	Max	°C	200
Coefficient of linear thermal expansion		$10^{-6}/K$	40
DRY			
Maximum sliding speed, U		m/s	1.0
Maximum pU factor	For A_H / A_C = 5	N/mm^2 x m/s	0.05
	For A_H / A_C = 10	N/mm^2 x m/s	0.10
	For A_H / A_C = 20	N/mm^2 x m/s	0.20
Coefficient of friction, f			0.08 - 0.16
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	Very Good
Process fluid lubricated	Good after resistance testing

MICROSECTION