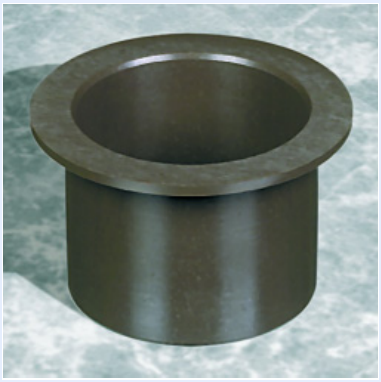
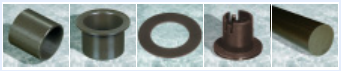
EP43™ Bearing Material

GGB BEARING TECHNOLOGY

an EnPro Industries company

EP43™ Bearing Material





Characteristics

- Injection moulded reinforced polyphenylensulfid based and modified bearing material
- Good chemical and hydrolysis resistance
- Very low friction, optimised for dry running conditions
- High dimensional stability
- Rod stock for prototypes and small series production
- Colour: brown

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

Composition & Structure

Injection moulded thermoplastic dry bearing material
PPS + PTFE + Aramid

Operating Conditions

dry	very good
oiled	good
greased	good
water	very good
process fluid	good after resistance testing

Availability

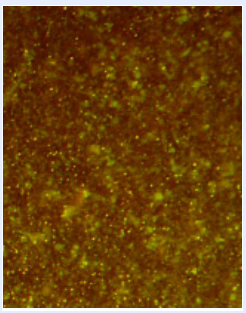
Ex Stock

- Cylindrical bushes, flanged bushes and rod stock

To order

- Non-standard parts

Microsection



Injection moulded thermoplastic dry bearing material with additives homogeneously mixed in

Bearing Properties

Bearing Properties	Unit	Value
Dry		
Maximum sliding speed v	m/s	1.0
Maximum pv factor The pv Limit is depending on the heat dissipating surface to contact area ratio 1) A_H/A_C = 5 2) A_H/A_C = 10 3) A_H/A_C = 20	MPa x m/s	1) 0.22 2) 0.90 3) 3.59
Coefficient of friction f	–	0.11 - 0.20
Grease lubrication		
Maximum sliding speed v	m/s	-
Maximum pv factor	MPa x m/s	-
Coefficient of friction f	–	-
General		
Maximum temperature T_{max}	°C	+240
Minimum temperature T_{min}	°C	-40
Maximum load p static	MPa	83
Shaft surface finish R_a	µm	0.5±0.3
Shaft hardness	HV	>200

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