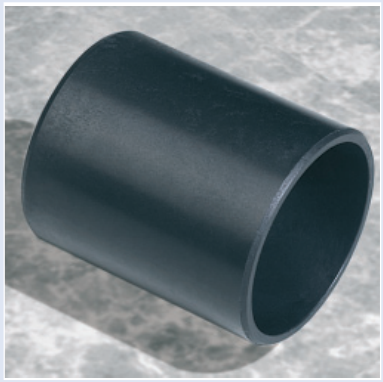
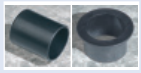
EP™ Bearing Material

GGB BEARING TECHNOLOGY

an EnPro Industries company

EP™ Bearing Material





Characteristics

- Injection moulded reinforced polyamide 6.6T based and modified bearing material
- Good bearing performance in the range of simple / medium working conditions
- The EP™ standard programme is interchangeable with roll-formed bushes according to ISO3547
- Recommended tolerances for fitted bushes: housing h7, shaft h7 - h9
- Colour: black

Applications

General
Generally applicable within the limits of the material properties

Industrial
Medical equipment, awnings and blinds, scientific equipment, gaming equipment, office equipment, etc.

Composition & Structure

Injection moulded Thermoplastic Material
PA6.6T + PTFE + glass fibres + graphite

Operating Conditions

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

Availability

Ex Stock
- Cylindrical bushes and flanged bushes

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) 0.06 2) 0.24 3) 1.0
Coefficient of friction f	–	0.15 - 0.30
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	+140
Minimum temperature T_{min}	°C	-40
Maximum load p static	MPa	80
Maximum load p dynamic	MPa	40
Shaft surface finish R_a	µm	0.5±0.3
Shaft hardness	HV	>200