GAR-FIL®
Bearing Material
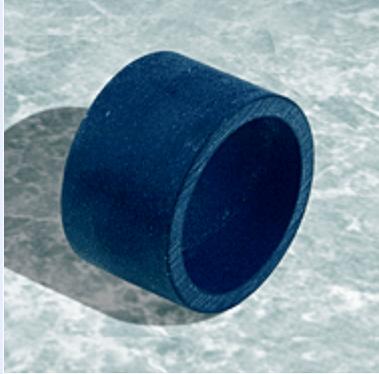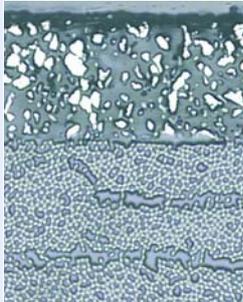
GGB
BEARING TECHNOLOGY

an EnPro Industries company

GAR-FIL® Bearing Material

Characteristics

- High load capacity
- Good chemical resistance
- Machinable bearing surface
- High rotational speed capability
- Very good friction and wear properties
- Excellent contamination resistance

Applications

Industrial
Valves, scissor lifts, pulleys, toggle linkages, etc.

Composition & Structure

Composite Material
Sliding Layer
Proprietary filled PTFE tape liner, 0,38 mm (0,015 inch) standard thickness, 0,76 mm (0,03 inch) on request

Backing
Continuous wound fiberglass encapsulated in a high temperature epoxy resin

Operating Conditions

dry	very good
oiled	very good
greased	fair
water	fair
process fluid	very good

Availability

Ex Stock
- Cylindrical bushes

To order
- N/A

Microsection

Sliding layer

Backing

Bearing Properties	Unit	Value
Dry		
Maximum sliding speed v	m/s	2.5
Maximum pv factor	MPa x m/s	1.23
Coefficient of friction f	–	0.02-0.12
Oil lubrication		
Maximum sliding speed v	m/s	-
Maximum pv factor	MPa x m/s	-
Coefficient of friction f	–	-
General		
Maximum temperature T_{max}	°C	+205
Minimum temperature T_{min}	°C	-195
Maximum load p static	MPa	140
Maximum load p dynamic	MPa	140
Shaft surface finish R_a *	µm	0.4
Shaft hardness - normal	HB	>200

* Alternative shaft hardnesses and shaft surface finish is possible, depending on the application. Please contact your local GGB representative.

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