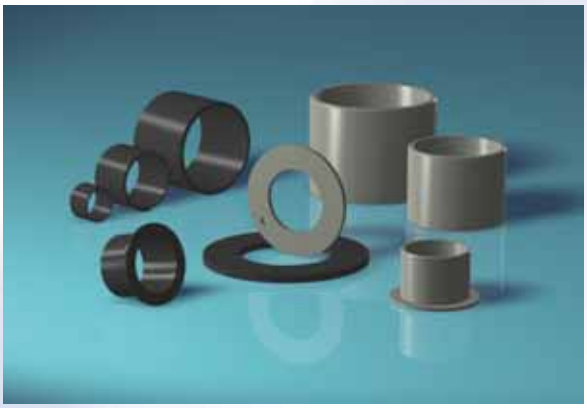
New polyester and plain wrapped bearings available from FTL Technology



Glycodur® RPL and RPH are solid polymer bearings which are economically manufactured in one step using an automatic injection molding process. Through specific blending of the thermoplastic polymer with additives, the products are suited to a wide range of applications. In this way cost effective solutions are possible. The bearings are available in two standard types:

GLYCODUR® RPL

Glycodur® RPL sliding bearings consist of the basis polymer Polybutylenterephthalat (PBT). Embedded in the polymer matrix are Polytetrafluorethylen (PTFE), find bronze powder and Aramid fibres. The PTFE works to minimise friction and wear whereby the fine bronze powder increases pressure resilience. The Aramid fibres guarantee the tight fit of the bearing without being abrasive even at high temperatures. Through a well balanced mixing ratio optimum operational characteristics are achieved.

GLYCODUR® RPH

Glycodur® RPH sliding bearings are made from the basis Polyaidimid (PAI). In order to further improve the mechanical and tribological properties of PTFE, graphite as well as special additives are incorporated. PTFE, graphite and the special additives improve the sliding/friction performance. In addition to this, graphite causes a further improvement of the compression strength and the conductivity of the compound. The basis PAI belongs to the highest material class and is one of the most temperature resistant thermoplastics that can be machined.

Glycodur® RB and Glycodur® RS compliment the proven lead free Glycodur sliding bearings with an important new characteristic: they are corrosion resistant.

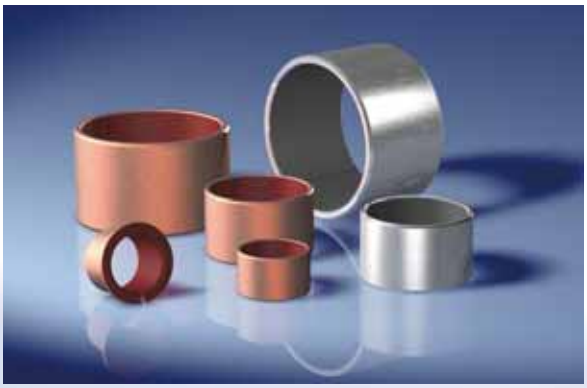
Whereas the Glycodur® sliding bearings have a copper plated steel backing, the Glycodur® RB and Glycodur® RS use different backing materials.

GLYCODUR® RB

Glycodur® RB sliding bearings have a bronze backing which makes them corrosion resistant. At the same time they have particularly good heat conductivity compared to Glycodur® F sliding bearings. If heat is generated by the application, it can be dissipated better through the bearing into the housing.

GLYCODUR® RS

Glycodur® RS sliding bearings have a stainless steel backing, which is very corrosion resistant. They are suitable for all applications where it is important to avoid corrosion (the food industry for instance).



PLAIN WRAPPED BEARINGS

Glycodur® dry sliding bearings are available in two standard versions, Glycodur® F and Glycodur® A. Both versions have different sliding layers according to DIN ISO 3547 type P1 and P2.

GLYCODUR® F

Glycodur® F sliding bearings have a copper-plated steel base, to which a 0.2 to 0.4 mm porous tin bronze layer is sintered. The pores of this layer are filled during a rolling process with polytetrafluoroethylene (PTFE) and other friction and wear reducing additives. A 5 to 30 μm top layer made of the same material forms the running-in layer.

Glycodur® F sliding bearings combine in optimal manner the mechanical properties of the sintered bronze with the sliding and lubrication properties of a PTFE mixture. The structure of this composite material results in good dimensional stability and good thermal conductivity.

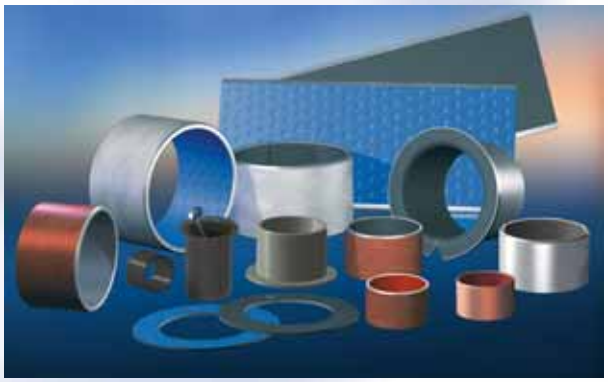
GLYCODUR® A

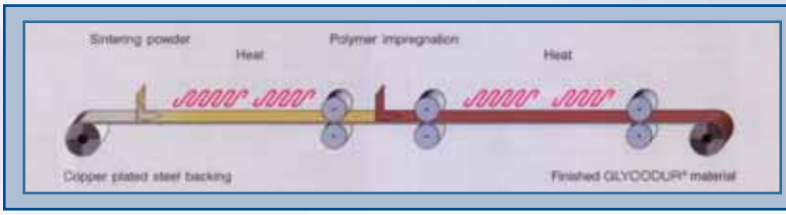
Glycodur® A dry sliding bearings also have a copper-plated steel base and a 0.2 to 0.4 mm sintered tin bronze layer. The principal characteristic of these bearings is the polyoxymethylene (POM) top layer, which is solidly joined to the sintered bronze.

This surface layer is relatively thick, 0.3 mm, and features pockets of lubrication grease. Glycodur® A sliding bearings are therefore to some extent unaffected by misalignments including related edge loads.

GLYCODUR® AB

Glycodur® AB sliding bearings have a similar composition to Glycodur® A sliding bearings, but they have a 0.35 mm top layer of POM. This allows the final machining of the sliding surface on installed bushings by boring or turning, or in exceptional cases by reaming, in order to eliminate possible misalignments, or to achieve small operating clearance.





Scheme production process for Glycodur®

FTL TECHNOLOGY
SEALING, BEARING AND ENGINEERED SOLUTIONS

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