

New Ways to Favoured Bearings

"iglidur" polymer materials as semi-finished products

For the first time, plastics developer and bearing specialist igus, Cologne, now also offers semi-finished products. Lubricant-free, wear-resistant "iglidur" polymer materials are also available as round bars from stock supplies. As an alternative, mechanically finish-machined, favoured shapes and sizes can also be ordered directly from igus. This offer is addressed to maintenance staff, special-purpose machine manufacturers, and plant builders who require high-performance materials in special dimensions for small batch production. Semi-finished products are also highly suitable for the short-term production of test samples and prototypes. With the new "iglidur" semi-finished products, the manufacturer also extends the service life predictability of his plastic plain bearings to include mechanically machined plain bearings.

High performance, low friction values

Semi-finished products made from the materials "iglidur J" and "iglidur W300" are available for now. Both materials are characterised by extremely high performance and low friction values in dry running condition. Developed many years ago for applications in which long life is very important, these products have been installed as injection-moulded plain bearings many millions of times. According to igus, this is why the company decided to start up its new line-up of semi-finished products with these two materials.

Olympic victory

"iglidur J" and "iglidur W300" are used in many different applications, extending, e.g., from organ building and beverage filling industries, including the agricultural machinery industry up to the car manufacturing industry. And, by the way, the brakes and gear shifts for the mountain bikes of the 2004 Olympic champions were also equipped with "iglidur J" bearings.



Picture PM2207-01: igus GmbH, Cologne

New: semi-finished products made from "iglidur" polymer materials for the production of plain bearings in favoured shapes and sizes.

Material structure

"iglidur" materials consist of perfectly complemented polymers, including reinforcement materials and solid lubricants for optimised material property profiles. As a result, igus conducts more than 8,000 tests every year at its in-house technical centre. One aim is to provide users with precise predictions about bearing behaviour and especially about bearing service life. Critical factors of these tests include wear, friction values, and required driving forces under many different stress and speed collectives as well as other ambient conditions such as temperature, corrosive agents, dirt, impacts, and jolts.



Picture PM2207-02: igus GmbH, Cologne
High performance and low friction values in dry running condition: the reliable polymer materials "iglidur J" and "iglidur W300" from igus are now also available as semi-finished products..

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