

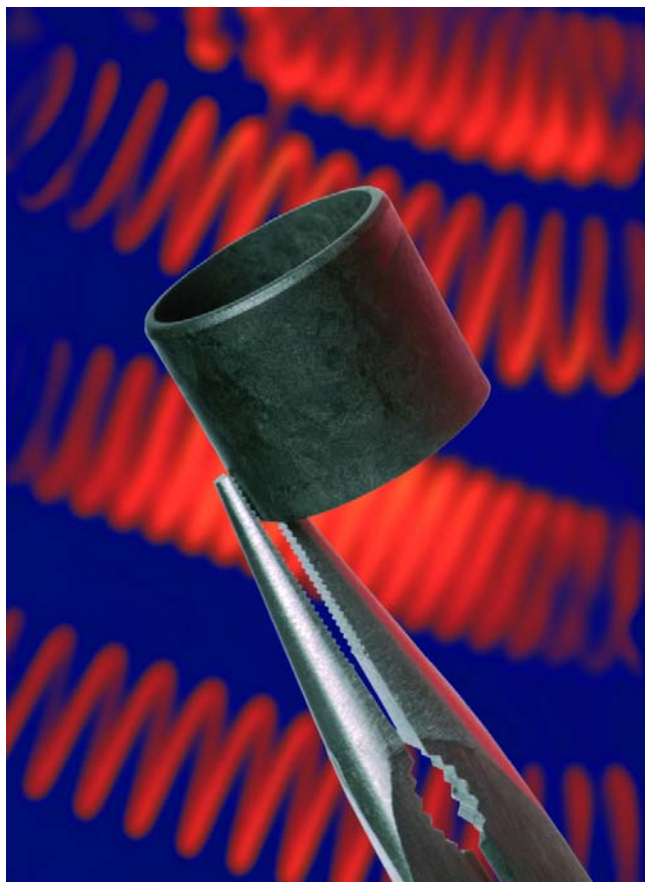
New 'extreme' bearing material

iglidur Z510 - dimensionally stable at high temperatures and high loads

Just in time for the Hanover Industrial Fair 2005 igus (corporate mission: "plastics for longer life") presented its newly developed 'extreme' material iglidur Z510. This material compound, developed by the Cologne-based company, is the first to combine the range of applications demanding permanently high operating temperatures of 260°C, with high pressure resistance and dimensional stability.

Thanks to its high pressure resistance and elasticity, iglidur Z510 can also take on particularly heavy loads, even while pivoting and with additional edge loads. Year after year engineers carry out more than 5,000 trials in the igus laboratory, testing more than 100 new materials. During one of these tests the new material really showed what it could do. During rotating tests the "new" material stood up to permanent loads of far more than 100 MPa while in continuous motion - this is absolutely unique. The loads igus felt iglidur Z510 could cope with were increased even more during pivoting movements. The display finally showed 300 MPa, which makes applications for high-performance, maintenance-free bearings possible on truck tail lifts for the very first time, according to engineers in this sector.

The new bearing material is also extremely resistant to chemicals and is characterised by low water absorption. Just like all other igus polymer plain bearings, iglidur Z510 is maintenance and corrosion-free and can be supplied immediately on request.



Picture PM1005-01: igus GmbH, Cologne

New milestone: iglidur Z510 for permanent operating temperatures of 260 °C and high pressure resistance at the same time.

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