

Press release

**TRIBOCOMP**<sup>®</sup>



**EPIC Polymers introduces new TRIBOCOMP<sup>®</sup> grade for highly loaded gears**

**TRIBOCOMP<sup>®</sup> A-3 TS0** is a lubricated thermoplastic gear material which was developed especially for transmitting high loads through drive assemblies. Compared to standard solutions like PTFE filled, glass fibre reinforced PA66 compounds, gears manufactured out of **TRIBOCOMP<sup>®</sup>** show more than triple the lifetime. In practical testing, this grade even outperformed the vastly more expensive Carbon fibre reinforced, PTFE filled PA4.6

Fred Panhuizen, director of marketing and technology, *EPIC Polymers*, comments: „Electro mechanically driven actuators are widely used in the automotive industry. The decreasing build space means that the required torque has to be transmitted through smaller drive

systems. **TRIBOCOMP<sup>®</sup> A-3 TS0** allows downsizing without sacrificing performance”

Jörg Konrad, director of sales, adds: “We have been able to bring significant cost reductions to our customers by eliminated expensive sinter metal gears or expensive carbon fibre reinforced gears. **TRIBOCOMP<sup>®</sup> A-3 TS0** will become the material of choice for highly torque applications.”

The technology used in this PA66 based product is currently being transferred to PPA based compounds, allowing even higher loads and temperatures.

The picture shows a set of planetary gears, which operates in a temperature range of -40 to +140 °C. **TRIBOCOMP<sup>®</sup> A-3 TS0** allowed the transfer of a far higher torque over the lifetime of 140.000 cycles than any of the other tested products, including PEEK compounds.

*EPIC Polymers* is a leading supplier of tailor made materials for special application areas like wear and friction applications, thermally and electrically conductive thermoplastics and high strength thermoplastics.