

## **Optimized tribological properties for LUCOVOM® high-performance compounds using nanotechnology**

For more than 30 years the LUVOCOM® business unit of Lehmann & Voss & Co. has been concentrating on the production of thermoplastic high-performance compounds and is thus one of the few specialists within this field in Germany. Here the focus is on developing customer-specific compounds with exactly defined properties even in smaller quantities.

Thanks to a combination of thermoplasts such as PEEK, PPS or PA with special nano-additives it is now possible to produce tribologically modified materials with higher wear resistance while maintaining a low coefficient of friction. Traditional solid lubricants such as PTFE are avoided in the process, which has the advantage that the materials can be better processed and that the finished product exhibits enhanced mechanical strength properties.

An additional interesting aspect of these materials is the fact that their price does not need to exceed that of the already familiar tribologically modified materials. Although these LUVOCOM® materials are developed especially for their specific application in close cooperation with the customer, the experience and technical expertise of the development team at Lehmann & Voss & Co. means that a suitable solution is still quickly achieved.

Applications for these new high-performance materials include bearing bushes and cages, friction bearings and gear wheels.

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*Distributors world-wide see enclosed PDF file.*

*Caption:*  
*LUVOCOM® high-performance compounds modified with special nano-additives are used in friction bearings and cages for example.*