



Press Info

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New PEEK compounds even more tribologically effective

Combinations of new additives – even on the nanoscale – have made it possible to further increase the wear resistance of LUVOCOM[®] PEEK compounds. One factor that has paid off in these developments is the reduction of the traditional additive PTFE in LUVOCOM[®] some years ago due to the increasing number of restrictions it faces. Furthermore, PTFE often acts as a barrier to increased wear resistance.

Resulting from these new developments are materials specially adapted to the counteracting partners. LUVOCOM[®] 1105-8000, for example, is one of a number of products with an extraordinary tribological profile which significantly surpasses previously known materials. If details of the counteracting partner are known, such as whether it is made of a certain tool steel, aluminium or plastic, together with the additional parameters, it is possible to selectively recommend suitable tribo-compounds. The systematic inclusion of various counteracting partners in tribological investigations considerably reduces the effort expended by the user on material selection and component testing, and the information determined on wear values for standardised pairing friction parts extends beyond previously published figures.

A range of new innovative materials is now available for developers and designers. In combination with the detailed knowledge and experience of the LUVOCOM[®] engineers, this opens up new applications in the automotive sector, in mechanical and plant engineering as well as other industries.

For many years now, Lehmann & Voss & Co. has been among the leading suppliers of tribological high-performance compounds with wear-reducing additives – including other nano-additives – and PTFE-free formulations.

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LUVOCOM® high-performance thermoplastics from the house of Lehmann & Voss & Co., Hamburg, are used in many industries for producing products that reliably fulfil their function, even under very difficult conditions. For more than 25 years, LUVOCOM® materials have mainly been tailored to individual customer requirements with exactly defined requirements. LUVOCOM® compounds can be divided into six product families: electrically conductive, lubricant-modified, carbon fibre reinforced, high-temperature resistant, thermally conductive and detectable materials. The materials are based on nearly all available polymers, such as PC, PBT, PET, PA 6.6, PA 4.6, PPA, PPS, PES, PEI, PEEK and PEEK-HT. More detailed information is available at www.luvocom.de