



LUVOCOM® SCF

Higher strength

Higher stiffness

At the same time higher impact strength

Easy processing

Made-to-measure compounds



LUVOCOM® SCF – a new generation of extra strong, stiff and impact resistant compounds

This new product range is the manifestation of the latest thermoplastic carbon fiber compound innovation of Lehmann & Voss & Co. Increases in strength and stiffness in materials often lead to greater fragility. This new carbon-fibre technology, however, pushes the performance boundaries of traditional injection-moulding engineering compounds even higher, thereby offering new design possibilities for lighter, stronger components. In addition LUVOCOM® SCF is processable on standard injection-moulding machines, with the usual proviso of trying to maintain good fibre length throughout the transformation cycle. This means low cylinder back pressures, moderate injection speeds and well-dimensioned gates to avoid excessive shear.

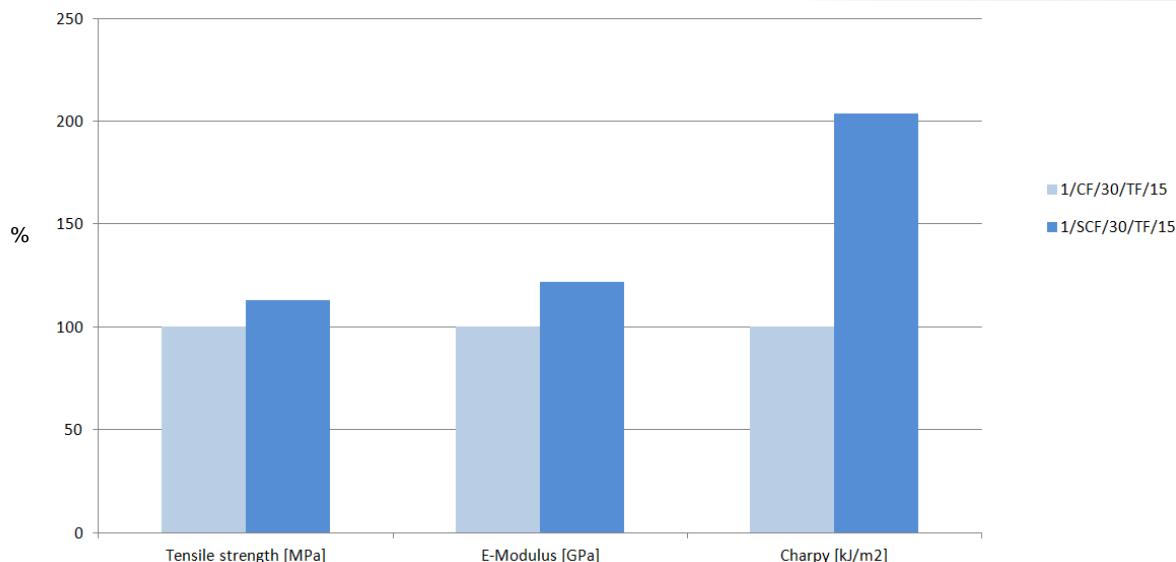
LUVOCOM® SCF, together with LUVOCOM® XCF, LUVOCOM® CF and LUVOCOM® LF, are high-performance compounds for metal replacement. They extend the possible applications and help end users to save energy and costs by using optimised end-products.

We offer our support with material selection, part design and processing. Made-to-measure LUVOCOM®-SCF-compounds, for instance with other polymers, lubricants and different fibre percentages, are available on request.



LUVOCOM® SCF

Performance increase in % of LUVOCOM® 1/SCF/30/TF/15 compared with LUVOCOM® 1/CF/30/TF/15
Both compounds based on PA 6.6, 30 % carbon fiber, 15 % PTFE



Material selection*

LUVOCOM®	Polymer	Modification	Tensile strength ISO 527 (MPa)	E-Modulus ISO 527 (GPa)	Charpy ISO 179 1eU (kJ/m²)	Specific Density ISO 1183 (g/cm³)
1/SCF/30	PA 6.6	Carbon fibers	310	27	95	1,29
1/SCF/30/TF/15	PA 6.6	Carbon fibers/PTFE	285	25	91	1,39
1/SCF/40	PA 6.6	Carbon fibers	315	37	92	1,34
20-0665/SCF	PPA	Carbon fibers/lubrication package	235	20	55	1,39

*Further materials available upon request

LUVOCOM® - Solutions individually compounded

Across a wide range of industries and applications, parts realised in LUVOCOM®, ensure reliable performance under even the most severe conditions. The materials are based on practically every available thermoplastic resin. Over the past 30 years we have developed most of them tailor made to customer's specific requirements. The products can broadly be divided into 7 application areas as follows:



Further information are available at www.luvocom.com

The data are based on thorough investigations and are only intended as advice. They are not intended to replace separate testing relating to a specific application. Material properties may vary according to the shape and size of the article produced and may be influenced by the processing conditions.