

## SCS-Carbon-Kurzschnitt 100µm

760.0300, 760.0500, 760.1000, 760.0001

CF-milled100 : mixture of all origins carbon and graphite ex-PAN fibers, obtained from pure carbon fibers, selected and milled for compounding. Ist very low sizing level, which can vary, is generally compatible with the widest range of thermosetting and thermoplastic matrixes (polymers and elastomers), also rubbers, papers, concrete, paints etc. Its compatibility needs to be checked on each new batch and for each new application.

### Properties carbon fibers : Average values (minimum values)

Carbon fibers content*	100%, (99,8%)
Carbon content*	94% (> 92%)
Remaining sizing level*	<0,1 %
Density (Continuous fiber)*	1,7 <d < 2,0 g/cm <sup>3</sup>
Mono filament diameter*	7 µm +/-2
Tensile strength*	3500 MPa (3000 MPa)
Elongation at break*	1,5% (1,2%)
Young's modulus (Tensile)*	230 GPa (200 GPa)

### Properties milled carbon fibers

Median length	100 µm +/-20
> 80 µm (mass distribution)	60% +/- 5
Bulk density	0,35 kg/dm <sup>3</sup> +/- 0,06
Metal contamination**	<0,5 g / 1000 g

\*Average values excerpt from the technical data sheets of the ex-PAN “high strength” fibers that we use in our mixture for more than 90%. The ≤10% remaining are “high modulus” fibers from same various producers : TORAYCA, TOHO-TENAX, HEXCEL, CYTEC.... All these values, in the same way for length, bulk density, metal contamination, are given as a rough guide and do not in any way engage Suter Kunststoffe AG's responsibility

\*\*All our milled carbon fibers are purified through powerful magnets separators. Although very rare, some metal particles stay possible. An X-rays control permits to eliminate particles from 1 mm<sup>3</sup> (Pb, Cu) to 6 mm<sup>3</sup> (Al) depending on metal density ; aluminium chips or sheets, even of several cm<sup>2</sup> , can't be detected

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