

S&P C-Sheet 640

 Sheet of carbon fibre for **dry and wet lay up**

07/07

Technical data (unidirectional)	400 g/m²
Elastic modulus [kN/mm ²]	640
Tensile strength [N/mm ²]	2650
Fibre weight [g/m²] (main direction)	400
Weight per unit area of sheet [g/m ²]	430
Density [g/cm ³]	2.1
Elongation at rupture [%]	0.4
Design thickness (fibre weight/density) [mm]	0.190
Theoretical design cross-section 1000 mm width [mm ²]	190
Reduction factor for design (manual lamination/ UD sheet)	1.2 (recommended by S&P)
Tensile force of 1000 mm width ultimate [kN]	$\frac{190 \cdot 2650}{1.2} = \underline{\underline{419.6}}$
Tensile force of 1000 mm width at 0.2% ε for design [kN]	203
Delivery: (Special sheets upon request)	With: 300 mm Length roll: 50 m
Application:	<ul style="list-style-type: none"> • External shear strengthening • End anchoring of the S&P laminate CFK

As of all other technical indications and information provided by us, the only purpose of this data sheet is to describe the nature of this product, as well as its possible applications and fields of use. However, it does not guarantee certain properties of this product or its suitability for a determined purpose of application; furthermore, the directions for use given in this data sheet are not complete. Since this data sheet is subject to modification, it is the duty of our clients to ensure that they refer to the latest version. The updated data sheets can be obtained at all times from all our locations. In addition, the current general terms of business are applicable.