

Brand name		Tenax®	Tenax®	Tenax®
Production site		E	E	E
Fiber family & tensile properties		HTS40	HTS40	HTS45
Sizing properties		F13	F13	E23
Number of filaments		12K	24K	12K
Nominal linear density ¹⁾	[tex]	800	1600	800tex
Twist	[t/m]	0/10Z	0/5Z	0
Running length per kg	[m/kg]	1250	625	1250
Package weight, net	[kg]	2 • 4 • 6	2 • 4 • 6 • 8	2 • 4 • 6

1) ohne Präparationsauftrag

Tensile Properties (typical values)

Tensile strength	[MPa]	4300	4300	4500
Tensile modulus	[GPa]	240	240	240

Characteristics (typical values)

Filament diameter	[µm]	7
Density	[g/cm ³]	1,77
Elongation at break	[%]	1,8
Specific heat capacity	[J/kgK]	710
Thermal conductivity	[W/mK]	10
Coefficient of thermal expansion [[10 ⁻⁶ /K]	-0,1
Specific electrical resistance	[Ω cm]	1,6 x 10 ⁻³

Sizing properties for fiber family HTS

HTS is a classic Tenax® high performance carbon fiber. The high tenacity (HT) fibers provide excellent mechanical laminate properties.

- E23 = Type with ca. 1,3 % sizing based on epoxy resin
 F13 = Type with ca. 1,0 % sizing based on polyurethane

Please contact our sales team any time for choosing the right type. The stated numbers are typical values. For design purposes please request fiber specification.

Please note the application (aerospace or industry & sports) on your order.

The export or transfer of carbon fibers can be subject to authorization, depending on end-use and final destination.