

		Tenax [®] J	Tenax [®] J / E	Tenax [®] J / E	Tenax [®] E	Tenax [®] E
		HTA 5241	HTA 5131	HTA 5131	HTA 5131	HTS 5631
Linear density ¹⁾	(tex)	67	200	400	800	1600
Number of filaments		1000	3000	6000	12000	24000
Twist	(t/m)	S15	0/Z15	0/Z10	0/Z10	0/Z5
Filament diameter	(µm)	7	7	7	7	7
Running length per kg	(m/kg)	15000	5000	2500	1250	625
Package weight, net	(kg)	0.2 / 0.5	1 / 2	2 / 4	2 / 4 / 6	2 / 4 / 6 / 8

¹⁾ without sizing

Characteristics (typical values)

		HTA	HTS
Density	(g/cm ³)	1.76	1.77
Tensile strength	(MPa)	3950	4300
Tensile modulus	(GPa)	238	240
Elongation at break	(%)	1.7	1.8
Specific heat capacity	(J/kgK)	710	710
Thermal conductivity	(W/mK)	17	17
Coefficient of thermal expansion	(10 ⁻⁶ /K)	-0.1	-0.1
Specific electrical resistance	(Ω cm)	1.6 x 10 ⁻³	1.6 x 10 ⁻³

Type codes for HTA / HTS

HTA and HTS are the classic Tenax[®] high performance carbon fiber yarn types. These high tenacity (HT) fibers provide excellent mechanical laminate properties.

- 5241 = Type with ca. 2.5% sizing based on epoxy resin
- 5131 = Type with ca. 1.3% sizing based on epoxy resin
- 5631 = Type with ca. 1.0% sizing based on polyurethane

Please contact our sales team any time, for choosing the right type.
For design purposes please request fiber specification.

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