

Brand name	Production site	Fiber family & tensile properties	Sizing properties	Number of filaments	Nominal linear density (without sizing)	Additional information	Tensile Strength [MPa]	Tensile modulus [GPa]	Elongation at break [%]	Filament diameter [µm]	Density [g/cm <sup>3</sup> ]	Sizing	Size level [%]
Tenax®-J	HTA40	E15	1K	67tex	15S		4100	240	1,7	7,0	1,77	EP	2,5
Tenax®-E	HTA40	E13	3K	200tex			4100	240	1,7	7,0	1,77	EP	1,3
Tenax®-E	HTA40	E13	3K	200tex	15Z		4100	240	1,7	7,0	1,77	EP	1,3
Tenax®-J/E	HTA40	E13	6K	400tex			4100	240	1,7	7,0	1,77	EP	1,3
Tenax®-E	HTA40	E13	6K	400tex	10Z		4100	240	1,7	7,0	1,77	EP	1,3
Tenax®-J	HTS40	E13	3K	200tex			4400	240	1,8	7,0	1,77	EP	1,3
Tenax®-J	HTS40	E13	6K	400tex			4400	240	1,8	7,0	1,77	EP	1,3
Tenax®-E	HTS40	F13	12K	800tex			4400	240	1,8	7,0	1,77	PU	1,0
Tenax®-E	HTS40	F13	12K	800tex	10Z		4400	240	1,8	7,0	1,77	PU	1,0
Tenax®-E	HTS40	F13	24K	1600tex			4400	240	1,8	7,0	1,77	PU	1,0
Tenax®-E	HTS40	F13	24K	1600tex	5Z		4400	240	1,8	7,0	1,77	PU	1,0
Tenax®-E	HTS45	E23	3K	200tex			4500	235	1,9	7,0	1,77	EP	1,3
Tenax®-E	HTS45	E23	3K	200tex	15Z		4500	235	1,9	7,0	1,77	EP	1,3
Tenax®-E	HTS45	E23	12K	800tex			4500	240	1,9	7,0	1,77	EP	1,3
Tenax®-E	HTS45	E23	12K	800tex	10Z		4500	240	1,9	7,0	1,77	EP	1,3
Tenax®-E	HTS45	P12	12K	800tex			4500	240	1,9	7,0	1,77	TP	0,5
Tenax®-E	STS40	E23	24K	1600tex			4300	240	1,8	7,0	1,78	EP	1,3
Tenax®-E	STS40	F11	24K	1600tex			4300	240	1,8	7,0	1,78	PU	0,17
Tenax®-J/E	STS40	F13	24K	1600tex			4300	240	1,8	7,0	1,78	PU	1,0
Tenax®-J/E	STS40	F13	48K	3200tex			4300	250	1,7	7,0	1,77	PU	1,0
Tenax®-J/E	STS40	F13	48K	3200tex	CP		4300	250	1,7	7,0	1,77	PU	1,0
Tenax®-J	UTS50	F13	12K	800tex			5100	245	2,1	7,0	1,78	PU	1,0
Tenax®-J	UTS50	F22	12K	800tex	S		5100	245	2,1	7,0	1,78	PU	0,8
Tenax®-J/E	UTS50	F24	24K	1600tex	DCP		5100	245	2,1	7,0	1,78	PU	2,0
Tenax®-E	ITS50	F23	24K	1600tex	D		5100	265	1,9	7,0	1,80	PU	1,0
Tenax®-J	IMS60	E13	24K	830tex			5800	290	2,0	5,0	1,79	EP	1,3
Tenax®-E	IMS65	E23	24K	830tex			6000	290	2,1	5,0	1,78	EP	1,3
Tenax®-E	IMS65	P12	24K	830tex			6000	290	2,1	5,0	1,78	TP	0,8
Tenax®-J	UMS40	F23	24K	800tex	S		4700	390	1,2	4,9	1,79	PU	1,0
Tenax®-J	UMS45	F22	12K	385tex			4600	425	1,1	4,7	1,83	PU	0,8
Tenax®-J	HTS40	A23	12K	1420tex	MC		2900	230	1,3	7,5*	2,70	PU	1,3

\* inkl. 0,25 µm Nickel

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

<b>Cylindrical bobbins</b>		<b>Tenax®-J</b>		<b>Tenax®-E</b>
Tube length	[mm]	182	280	290
Tube internal diameter	[mm]	77	77	77
Tube weight	[g]	110	160	190
Stroke	[mm]	152	254	254

<b>Net weight</b>	[kg]	<b>0,5</b>	<b>1,0</b>	<b>2,0</b>	<b>4,0</b>	<b>6,0</b>	<b>8,0</b>	<b>10,0</b>
External diameter	[mm]	105	120	145	180	205	225	245

(typical values)

<b>Bobbins per packaging</b>		[kg]	<b>0,5</b>	<b>1,0</b>	<b>2,0</b>	<b>4,0</b>	<b>6,0</b>	<b>8,0</b>	<b>10,0</b>
Tenax®-J	carton	20/24	20	12	6	6	-	4	
	large packaging		-	-	-	75	60	54	

Tenax®-E	carton	-	16	11/12	6	6	3	-
	large packaging		-	150	90	69	60	-

**Packaging (L x W x H)**

Tenax®-J	carton	[mm]	640	x	520	x	290
	carton (4 kg)	[mm]	550	x	370	x	290
	carton (8 kg, 10 kg)	[mm]	570	x	570	x	290
	large packaging incl. palett	[mm]	1200	x	1100	x	1200

Tenax®-E	carton	[mm]	600	x	420	x	320
	large packaging incl. palett	[mm]	1000	x	1200	x	1040