

CONTACTS

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No	Title	Density, g / m2	Fiber type	Number of layers	The direction of fibers in the layers tacking	Sheet size, mm	Price for a 1m ² , EUR	Price for a sheet, EUR
1	CW 16 2/45+	16	IMS 65	2	+45° ; -45°	3100×600	83	154
2	CW 16 2/45-	16	IMS 65	2	-45° ; +45°	3100×600	83	154
3	CW 20 2/45+	20	IMS 65	2	+45° ; -45°	3100×600	59	110
4	CW 20 2/45-	20	IMS 65	2	-45° ; +45°	3100×600	59	110
5	CW 30 2/45+	30	IMS 65	2	+45° ; -45°	3100×600	59	110
6	CW 30 2/45-	30	IMS 65	2	-45° ; +45°	3100×600	59	110
7	CW 40 2/45+	40	IMS 65	2	+45° ; -45°	3100×600	59	110
8	CW 40 2/45-	40	IMS 65	2	-45° ; +45°	3100×600	59	110
9	CW 58 2/45+	58	IMS 65	2	+45° ; -45°	3100×600	70	130
10	CW 58 2/45-	58	IMS 65	2	-45° ; +45°	3100×600	70	130
11	CW 45 3/45, 0+	45	IMS 65	3	+45° ; -45° ; 0°	3100×600	89	165
12	CW 45 3/45, 0-	45	IMS 65	3	-45° ; +45° ; 0°	3100×600	89	165
13	CW 60 3/45, 0+	60	IMS 65	3	+45° ; -45° ; 0°	3100×600	89	165
14	CW 60 3/45, 0-	60	IMS 65	3	-45° ; +45° ; 0°	3100×600	89	165
15	CW 19 2/45+	19	UMS 40	2	+45° ; -45°	3100×600	76	140
16	CW 19 2/45-	19	UMS 40	2	-45° ; +45°	3100×600	76	140
17	CW 29 2/45+	29	UMS 40	2	+45° ; -45°	3100×600	76	140
18	CW 29 2/45-	29	UMS 40	2	-45° ; +45°	3100×600	76	140
19	CW 39 2/45+	39	UMS 40	2	+45° ; -45°	3100×600	76	140
20	CW 39 2/45-	39	UMS 40	2	-45° ; +45°	3100×600	76	140
21	CW 53 2/45+	53	UMS 40	2	+45° ; -45°	3100×600	85	158
22	CW 53 2/45-	53	UMS 40	2	-45° ; +45°	3100×600	85	158
23	CW 43,5 3/45, 0+	43,5	UMS 40	3	+45° ; -45° ; 0°	3100×600	114	212
24	CW 43,5 3/45, 0-	43,5	UMS 40	3	-45° ; +45° ; 0°	3100×600	114	212

IMS 65 – Intermediate Modulus carbon fiber

UMS 40 – Ultra High Modulus carbon fiber

We can make sheets for your individual size

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CARBOWEAVE™



It is made of TohoTenax® carbon fiber:

IMS 65 — high strength carbon fiber

UMS 40 — high modulus carbon fiber

Characteristics of TohoTenax®

	IMS 65	UMS 40
Tensile strength, MPa	6000	4700
Tensile modulus, GPa	290	390
Elongation at break, %	1,9	1,2

Toho Tenax® carbon fibers IMS series are tailored to suit applications where strength and stiffness are of ultimate priority. To accommodate this, they are featuring an increase in tensile strength and modulus compared to the usual high tenacity carbon fiber type, leading to unique performances in laminates. Sophisticated components with low wall thicknesses profit from these properties. Therefore, **Toho Tenax® carbon fiber IMS has quite wide practical application, particularly it can be used** for aerospace composite components.

The high modulus fiber Toho Tenax® UMS is a carbon fiber for meeting the requirements of extra stiffness (elastic stiffness). Exceptional characteristics of this material are especially suitable for constructions for space applications, such as satellite constructions, antennas, shafts and rollers. Properties of TohoTenax® UMS fully meet the requirements of sports goods (fishing rods, boat masts, radio controlled models, ski sticks, etc.)