

TIVAR® [UHMW-PE]

Ultra High Molecular Weight Polyethylene [UHMW-PE]

TIVAR® 1000 natural

PLATES						
Thicknesses [mm]	Tolerances on the thicknesses [mm]	Standard size per piece: [1000 x 2000 mm ^[1]]		Tolerances on the thicknesses [mm]	Standard size per piece: [1220 x 3000 mm ^[1]]	
		skived [kg/pce ^[2]]			skived [kg/pce ^[2]]	
1	-0,0 +0,4	2,30	■	-	-	-
2		3,80	■	-0,0 +0,4	7,70	■
3		5,80	■		10,60	■
4	-0,2 +0,2	7,70	■	-0,2 +0,2	14,10	■
5		9,60	■		17,60	■
6		11,50	■		21,10	■
8	-0,3 +0,3	15,40	■	-0,3 +0,3	28,20	■

Thicknesses [mm]	Tolerances on the thicknesses [mm]	Standard size per piece: [1010 x 2020 mm ^[1]]		Tolerances on the thicknesses [mm]	Standard size per piece: [1220 x 3050 mm ^[1]]	
		pressed [kg/pce ^[2]]			pressed [kg/pce ^[2]]	
10		20,00	■		37,00	■
12		24,00	■		44,30	■
15		30,10	■		55,10	■
20		40,10	■		73,30	■
25		50,10	■		91,40	■
30		60,10	■		109,60	■
35	-0,2 +0,2	70,10	■	-0,0 +0,4	127,70	■
40		80,20	■		145,80	■
45		90,20	□		164,00	□
50		100,20	■		182,10	■
60		120,20	■		218,40	■
70		140,30	□		254,66	□
80		160,30	■		291,30	□
90		180,40	□		327,60	□
100		200,40	■		363,90	□
110		220,44	□		400,13	□
120		240,48	□		436,41	O.R.
130		260,52	□		472,70	O.R.
140	-0,3 +0,3	280,55	□	-0,0 +0,6	509,00	O.R.
150		300,59	□		545,20	O.R.
160		320,60	O.R.		581,50	O.R.
170		340,70	O.R.		-	-
180		360,70	O.R.		-	-
190		380,80	O.R.		-	-
200		400,80	O.R.		-	-

^[1]: tolerances on widths and lengths [mm]:

plate size	width	length
1000 x 2000	-0,0 +10,0	-0,0 +10,0
1220 x 3000	-0,0 +10,0	-0,0 +30,0
1010 x 2020 / 1220 x 3050	-0,0	+60,0

^[2]: average production weight

- : **standard** item [generally available from stock; bulk quantities to be manufactured to order]
- : **semi-standard** item [generally not available from stock, minimum order quantity 1 piece]
- : **non-standard** item [generally not available from stock, manufactured to order and subject to special conditions; improved availability possible upon customer planning]

O.R.: available on request: please check for lead-time and minimum quantity

Please note that this material is also available in further dimensions and thicknesses.

Please consult us concerning production capabilities and minimum order quantities.

TIVAR® [UHMW-PE]

Ultra High Molecular Weight Polyethylene [UHMW-PE]

TIVAR® 1000 natural

PLATES							
Thicknesses [mm]	Tolerances on the thicknesses [mm]	Standard length per piece: [1220 x 2020 mm ^[1]]		Standard length per piece: [1330 x 3050 mm ^[1]]		Standard length per piece: [2020 x 6150 mm ^[1]]	
		pressed [kg/pce ^[2]]		pressed [kg/pce ^[2]]		pressed [kg/pce ^[2]]	
8	-0,0 +0,4	19,80	□	32,40	□	98,35	O.R.
10		24,60	□	40,30	□	122,34	O.R.
12		29,50	□	48,20	□	146,33	O.R.
15		36,70	□	60,05	□	182,31	O.R.
20		48,80	■	79,81	□	242,28	O.R.
25		60,80	□	99,56	□	302,25	O.R.
30		72,90	■	119,31	□	362,22	O.R.
35		85,00	□	139,07	□	422,19	O.R.
40		97,10	■	158,82	□	482,16	O.R.
45		109,10	□	178,58	□	543,30	O.R.
50		121,20	□	198,33	□	603,30	O.R.
60		145,40	□	237,84	□	723,20	O.R.
70		169,50	□	277,35	□	843,20	O.R.
80		-0,0 +0,6	193,90	□	317,25	□	963,10
90	218,00		□	356,76	□	1 083,10	O.R.
100	242,20		□	396,27	□	1 203,00	O.R.
110	266,30		□	435,77	□	-	-
120	290,47		O.R.	475,28	O.R.	-	-
130	314,60		O.R.	-	-	-	-
140	338,80		O.R.	-	-	-	-
150	362,90		O.R.	-	-	-	-
160	387,00	O.R.	-	-	-	-	

^[1]: tolerances on widths and lengths [mm]:

plate size	width	length
1220 x 2020 / 1330 x 3050 / 2020 x 6150	-0,0 +30,0	-0,0 +60,0

^[2]: average production weight■ : **standard** item [generally available from stock; bulk quantities to be manufactured to order]■ : **semi-standard** item [generally not available from stock, minimum order quantity 1 piece]□ : **non-standard** item [generally not available from stock, manufactured to order and subject to special conditions; improved availability possible upon customer planning]

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TIVAR® [UHMW-PE]

Ultra High Molecular Weight Polyethylene [UHMW-PE]

TIVAR® 1000 green

PLATES						
Thicknesses [mm]	Tolerances on the thicknesses [mm]	Standard size per piece: [1000 x 2000 mm ^[1]]		Tolerances on the thicknesses [mm]	Standard size per piece: [1220 x 3000 mm ^[1]]	
		skived [kg/pce ^[2]]			skived [kg/pce ^[2]]	
1	-0,0 +0,4	2,30	■	-	-	-
2		3,80	■	-0,0 +0,4	7,70	□
3		5,80	■		10,60	□
4	-0,2 +0,2	7,70	■	-0,2 +0,2	14,10	□
5		9,60	■		17,60	□
6		11,50	■		21,10	□
8	-0,3 +0,3	15,40	■	-0,3 +0,3	28,20	□

Thicknesses [mm]	Tolerances on the thicknesses [mm]	Standard size per piece: [1010 x 2020 mm ^[1]]		Tolerances on the thicknesses [mm]	Standard size per piece: [1220 x 3050 mm ^[1]]	
		pressed [kg/pce ^[2]]			pressed [kg/pce ^[2]]	
10		20,00	■		37,00	■
12		24,00	■		44,26	■
15		30,10	■		55,10	■
20		40,10	■		73,30	■
25		50,10	■		91,40	□
30		60,10	■		109,60	□
35	-0,2 +0,2	70,10	□	-0,0 +0,4	127,70	□
40		80,20	■		145,80	□
45		90,20	□		163,97	□
50		100,20	■		182,10	□
60		120,20	■		218,40	■
70		140,30	□		254,66	□
80		160,30	■		291,30	□
90		180,40	□		327,58	□
100		200,40	□		363,86	□
110		220,44	□		400,13	□
120		240,48	□		436,41	O.R.
130		260,52	□		472,70	O.R.
140	-0,3 +0,3	280,55	□	-0,0 +0,6	509,00	O.R.
150		300,59	□		549,20	O.R.
160		320,60	O.R.		581,50	O.R.
170		340,70	O.R.		-	-
180		360,70	O.R.		-	-
190		380,80	O.R.		-	-
200		400,80	O.R.		-	-

^[1]: tolerances on widths and lengths [mm]:

plate size	width	length
1000 x 2000	-0,0 +10,0	-0,0 +10,0
1220 x 3000	-0,0 +10,0	-0,0 +30,0
1010 x 2020/1220 x 3050	-0,0 +30,0	-0,0 +60,0

^[2]: average production weight

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TIVAR® [UHMW-PE]

Ultra High Molecular Weight Polyethylene [UHMW-PE]

TIVAR® 1000 green

PLATES							
Thicknesses	Tolerances on the thicknesses	Standard length per piece: [1220 x 2020 mm ^[1]]		Standard length per piece: [1330 x 3050 mm ^[1]]		Standard length per piece: [2020 x 6150 mm ^[1]]	
[mm]	[mm]	pressed		pressed		pressed	
		[kg/pce ^[2]]		[kg/pce ^[2]]		[kg/pce ^[2]]	
8	-0,0 +0,4	19,80	□	32,40	□	98,35	O.R.
10		24,60	□	40,30	□	122,34	O.R.
12		29,50	□	48,20	□	146,33	O.R.
15		36,70	□	60,05	□	182,31	O.R.
20		48,20	□	79,81	□	242,28	O.R.
25		60,80	□	99,56	□	302,25	O.R.
30		72,90	□	119,31	□	362,22	O.R.
35		85,00	□	139,07	□	422,19	O.R.
40		97,10	□	158,82	□	482,16	O.R.
45		109,10	□	178,58	□	543,30	O.R.
50		121,20	□	198,33	□	603,30	O.R.
60		145,40	□	237,84	□	723,20	O.R.
70		169,50	□	277,35	□	843,20	O.R.
80		193,89	□	317,25	□	963,10	O.R.
90	218,03	□	356,76	□	1.083,10	O.R.	
100	242,20	□	396,27	□	1.203,00	O.R.	
110	266,30	□	435,77	□	–	–	
120	290,47	O.R.	475,28	O.R.	–	–	
130	314,60	O.R.	–	–	–	–	
140	338,80	O.R.	–	–	–	–	
150	362,90	O.R.	–	–	–	–	
160	387,00	O.R.	–	–	–	–	
170	–	–	–	–	–	–	
195	–	–	–	–	–	–	
250	–	–	–	–	–	–	
	-0,0 +0,6	–	–	–	–	–	–
		–	–	–	–	–	–
		–	–	–	–	–	–
		–	–	–	–	–	–
		–	–	–	–	–	–
		–	–	–	–	–	–
		–	–	–	–	–	–
		–	–	–	–	–	–
		–	–	–	–	–	–
		–	–	–	–	–	–

^[1]: tolerances on widths and lengths [mm]:

plate size	width	length
1220 x 2020 / 1330 x 3050 / 2020 x 6150	-0,0 +30,0	-0,0 +60,0

^[2]: average production weight■ : **standard** item [generally available from stock; bulk quantities to be manufactured to order]▣ : **semi-standard** item [generally not available from stock, minimum order quantity 1 piece]□ : **non-standard** item [generally not available from stock, manufactured to order and subject to special conditions; improved availability possible upon customer planning]

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TIVAR® [UHMW-PE]

Ultra High Molecular Weight Polyethylene [UHMW-PE]

 TIVAR® 1000 natural
 TIVAR® 1000 black
 TIVAR® 1000 green

ROUND RODS EXTRUDED						
Diameters [mm]	Tolerances on the diameters [mm]	Weight		TIVAR® 1000 natural	TIVAR® 1000 black	TIVAR® 1000 green
		[kg/1000 mm ^[1]]	[kg/2000 mm ^[1]]	Standard length per piece: [2000 mm ^[2]]		
12,7	+0,2 +0,7	0,13	0,25	■	□	■
15	+0,2 +0,8	0,18	0,35	□	□	□
20	+0,2 +1,0	0,32	0,63	■	■	■
25	+0,2 +1,1	0,50	1,00	■	■	■
30	+0,2 +1,2	0,70	1,40	■	■	■
35	+0,2 +1,3	1,00	1,90	■	■	■
40	+0,2 +1,5	1,30	2,50	■	■	■
45	+0,3 +1,7	1,60	3,20	■	□	□
50		2,00	3,90	■	■	■
55	+0,3 +2,0	2,40	4,80	□	□	□
60	+0,3 +2,3	2,90	5,70	■	■	■
65		3,40	6,60	□	□	□
70	+0,3 +2,5	4,00	7,70	■	■	■
75		4,60	8,90	□	□	□
80	+0,4 +3,0	5,20	10,10	■	■	■
85	+0,5 +3,4	5,90	11,40	□	□	□
90	+0,5 +3,4	6,60	12,70	■	■	■
100	+0,6 +3,8	8,10	15,70	■	■	■
110	+0,7 +4,2	9,80	19,00	■	■	■
120		11,70	22,70	■	■	■
125	+0,8 +4,6	12,70	24,60	■	□	□
130		13,70	26,60	■	■	■
140	+0,9 +5,4	15,90	30,80	■	■	■
150	+1,0 +5,8	18,20	35,40	■	■	□
160	+1,1 +6,3	20,70	40,30	■	■	■
170	–	–	–	O.R.	O.R.	O.R.
180	+1,2 +7,4	26,20	51,00	■	■	■
190	–	–	–	O.R.	O.R.	O.R.
200	+1,3 +8,5	32,40	63,00	■	■	■
250	–	50,62	100,00	O.R.	O.R.	O.R.

^[1]: average production weight

^[2]: tolerances on the length -0/+60 mm

 ■ : **standard** item [generally available from stock; bulk quantities to be manufactured to order]

 ▣ : **semi-standard** item [generally not available from stock, minimum order quantity 1 piece]

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TIVAR® [UHMW-PE]

Ultra High Molecular Weight Polyethylene [UHMW-PE]

TIVAR® 1000 natural

TIVAR® 1000 green

ROUND RODS PRESSED AND TURNED									
Diameters [mm]	Tolerances on the diameters [mm]	TIVAR® 1000 natural				TIVAR® 1000 green			
		Standard length per piece: [1000 mm/2000 mm ^[1]]							
		[kg/1000 mm ^[2]]		[kg/2000 mm ^[2]]		[kg/1000 mm ^[2]]		[kg/2000 mm ^[2]]	
20	-0,0 +1,0	0,31	□	0,62	■	0,32	■	0,62	□
25		0,48	□	0,96	□	0,50	■	0,96	□
30		0,69	□	1,37	■	0,70	■	1,37	□
35		0,93	□	1,85	□	1,00	■	1,85	□
40		1,21	□	2,41	■	1,30	■	2,41	□
45		1,53	□	3,05	□	1,60	□	3,05	□
50		1,88	□	3,75	■	2,00	■	3,75	□
55		2,27	□	4,53	□	2,40	□	4,54	□
60		2,70	□	5,38	■	2,90	■	5,38	□
70		3,66	□	7,31	□	4,00	■	7,32	□
80		4,77	■	9,53	□	5,20	■	9,54	□
90		6,03	□	12,05	□	6,60	■	12,06	□
100		7,44	■	14,85	□	8,10	■	14,87	□
110		8,99	□	–	–	9,80	■	–	–
120		10,69	□	–	–	11,70	■	–	–
125		11,60	□	–	–	12,70	□	–	–
130		12,54	□	–	–	13,70	■	–	–
140	14,53	□	–	–	15,90	■	–	–	
150	16,68	□	–	–	18,20	□	–	–	
160	18,96	□	–	–	20,70	■	–	–	
170	21,40	□	–	–	23,30	O.R.	–	–	
180	23,99	□	–	–	26,20	■	–	–	
190	26,72	□	–	–	29,20	O.R.	–	–	
200	29,59	□	–	–	32,40	■	–	–	
210	32,62	□	–	–	32,62	□	–	–	
220	35,79	□	–	–	35,79	□	–	–	
230	39,11	□	–	–	39,11	□	–	–	
240	42,58	□	–	–	42,58	□	–	–	

^[1]: tolerances on the length -0/+60 mm^[2]: average production weight■ : **standard** item [generally available from stock; bulk quantities to be manufactured to order]▣ : **semi-standard** item [generally not available from stock, minimum order quantity 1 piece]□ : **non-standard** item [generally not available from stock, manufactured to order and subject to special conditions; improved availability possible upon customer planning]

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