

LYTE® ERTALON® NYLAT
SYMALIT® TIVAR® FLUC

Delivery Programme



Polyethylene



LE® TIVAR® KETRON®
ETRON® TECHTRON®
LYTE® ERTALON® NY
SYMALIT® TIVAR®
LUOROSINT® TECH
ECHTRON® SYM
TRON® ERTAC
LE® TIVAR®
ETBON®



QUADRANT

You inspire ... we materialize®



QUADRANT

You inspire ... we materialize

Quadrant history:

The first engineering polymer shapes for machining.

Quadrant today:

The broadest range of engineering polymer shapes allowing the most effective material choice.

Quadrant tomorrow:

New products for new needs, developed by QEPP's global product and application development team.

For over 60 years, the companies that today form Quadrant have been developing new materials to meet changing demands of customers around the world. The innovative, collaborative spirit between our people and our customers has shaped our success and led to the industry's broadest range of engineering plastic shapes for machining. Our investment in innovation will only increase in the years ahead, to support your requirements for higher levels of performance, productivity and value.

Quadrant Engineering Plastics - Global Scope



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TIVAR® Materials

Next to the TIVAR standard grades and as a result of our polymer know-how, R&D capabilities, state of the art processing technology and the close cooperation with our customers, we have developed TIVAR Proprietary Grades with improved sliding and wear properties, enhanced temperature and oxidation resistance, flame retardant properties, static dissipative characteristics and enhanced release properties.



Careful selection of first class raw materials and fillers, high quality manufacturing standards and a highly advanced process technology operated by a skilled working force (ISO 9001 certified Quality Assurance System), ensure a reliable and consistent quality of the TIVAR Proprietary Grades.

TIVAR Proprietary Grades are modified engineering polymers based on ultra high molecular weight polyethylene (PE-UHMW) developed to solve specific engineering problems. They have a long track record of supporting the development of numerous demanding engineering applications.

TIVAR materials have a solid performance record in numerous industries such as: filling and packaging industry, general mechanical engineering, chemical industry, paper industry, nuclear industry, medical and electrical applications.



» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® Proprietary Grades

Quadrant Engineering Plastic Products focuses on innovation by modification of TIVAR 1000 standard materials in order to meet specific requirements of our customers. The TIVAR Proprietary Grades offer improved sliding and wear properties, static dissipative characteristics, enhanced release properties or other improved characteristics.

TIVAR DrySlide

[PE-UHMW + internal lubricant + other additives]

black

Thanks to the lubricant built into a PE-UHMW matrix with higher molecular weight, TIVAR DrySlide offers a lower coefficient of friction and enhanced wear and abrasion resistance than TIVAR 1000. The additives used also make this material static dissipative and considerably improve UV-resistance.

TIVAR TECH

[PE-UHMW + MoS₂]

grey-black

This PE-UHMW grade with extremely high degree of polymerisation contains molybdenum disulphide, resulting in a material with improved wear resistance and sliding properties over TIVAR 1000.

TIVAR Oil Filled

[PE-UHMW + oil]

grey

TIVAR Oil Filled is a self-lubricating PE-UHMW material in the real meaning of the word. Next to an enhanced wear resistance, the incorporated and evenly dispersed oil renders this material a considerable lower coefficient of friction than TIVAR 1000. In conveying equipment, it yields a significant reduction of the required driving force and, in addition, noise reduction. TIVAR Oil Filled also offers an FDA food contact compliant composition.

TIVAR SurfaceProtect

[PE-UHMW + additives]

natural

TIVAR SurfaceProtect is a modified PE-UHMW which enables more gentle treatment of plastic containers during the filling, transportation, labelling and packaging process than TIVAR 1000. TIVAR SurfaceProtect has a food contact compliant composition.

TIVAR ChainLine

[PE-UHMW + internal lubricant + other additives]

black

TIVAR ChainLine is a modified, PE-UHMW based chain guide material with reprocessed content which shows improved sliding properties over TIVAR 1000 thanks to the built-in lubricant. TIVAR ChainLine combines an advantageous price-performance ratio with improved sliding behaviour at higher chain speeds and loads. The additives used also render this material static dissipative and considerably improve UV-resistance.

TIVAR Cestigreen

[PE-UHMW + specific additives]

green

This permanently static dissipative material with extremely high molecular weight has been specifically developed as an alternative for standard static dissipative PE-UHMW grades and more particularly for those applications where a green and non-sloughing (without graphite or carbon powder) static dissipative PE-UHMW is required.

Proprietary Grades

TIVAR®

TIVAR DS

TIVAR DS is a modified PE-UHMW with extremely high molecular weight. The latter in combination with a particular manufacturing process result in a PE-UHMW grade with superior wear and abrasion resistance over TIVAR 1000.

[PE-UHMW + additives]grey
yellow**TIVAR Ceram P**

TIVAR Ceram P is a wear improved PE-UHMW material with incorporated micro glass beads, specifically developed for use in the dewatering zone of high-speed paper machinery equipped with plastic wires and manufacturing paper with highly abrasive filler content.

[PE-UHMW + micro glass beads + other additives]yellow-
green**TIVAR SuperPlus**

TIVAR SuperPlus is a wear optimised, partially cross-linked PE-UHMW material with extremely high degree of polymerisation for use in most demanding applications and environments.

[PE-UHMW, partially cross-linked + specific additives]

grey

TIVAR Xtended Wear

TIVAR Xtended Wear is a unique modified PE-UHMW with extremely high molecular weight, exhibiting enhanced wear properties over TIVAR Ceram P and specially developed for very demanding applications in the pulp and paper industry. TIVAR Xtended Wear is a hybrid material combining the advantageous properties of PE-UHMW and ceramics.

[PE-UHMW, hybrid material]pastel
turquoise**TIVAR VisiLiner**

TIVAR VisiLiner is a unique two coloured, sandwich layered, wear optimised PE-UHMW material specially developed for bulk material conveying applications. The top layer, made of a modified extremely high molecular weight PE-UHMW grade, exhibits excellent abrasion resistance, and the bottom layer, also made of PE-UHMW, indicates the imminent replacement of the complete liner.

[PE-UHMW + specific additives]

bicoloured

TIVAR H.O.T.

TIVAR H.O.T. [Higher Operating Temperature] is formulated to maintain inherent PE-UHMW key properties over an extended service temperature range, in this way considerably increasing part life in low load bearing applications up to temperatures as high as 125°C. Special additives reduce the oxidation rate of the material at higher temperatures thereby slowing down material degradation and extending wear-life. TIVAR H.O.T. also features a food contact compliant composition.

[PE-UHMW + specific additives]

bright-white

Proprietary Grades

TIVAR®

TIVAR Burnguard

[PE-UHMW + flame retardant + other additives]

TIVAR Burnguard is a PE-UHMW grade containing a very effective non-halogenated flame retardant. Specifically developed to improve the poor flammability behaviour of straight forward virgin polyethylene, it meets the requirements of UL 94 V-0 as of 6 mm thickness and is self-extinguishing. The additives used also render this material static dissipative and considerably improve UV-resistance.

black with
silver
coloured
spots

TIVAR CleanStat

[PE-UHMW + specific additives]

TIVAR CleanStat is a PE-UHMW grade for use in food processing and pharmaceutical industries. It exhibits static dissipative properties and has a food contact compliant composition.

black

TIVAR 1000 ASTL

[PE-UHMW + specific additives]

TIVAR 1000 ASTL, based on a PE-UHMW grade with extremely high molecular weight, has been specifically developed for tough anti-abrasion applications. TIVAR 1000 ASTL shows a higher wear and abrasion resistance and a lower surface resistivity than TIVAR 1000 ESD. The additives used also render this material static dissipative and highly UV-resistant.

black

TIVAR 1000 EC

[PE-UHMW + specific additives, electrically conductive]

TIVAR 1000 EC is a PE-UHMW grade containing specific additives rendering this material a lower surface resistivity than TIVAR 1000 ESD, improving electrical conductivity and UV-resistance.

black

Borotron® UH & HM

[PE-UHMW (UH) or PE-HMW (HM) + boron based additives]

Borotron UH and Borotron HM are boron loaded PE-(U)HMW grades, specifically developed for neutron shielding purposes in nuclear installations. The high hydrogen content of PE-(U)HMW makes it very suitable for slowing down fast neutrons to lower energy thermal (slow) neutrons, which are then absorbed by the added boron compound. Whereas both PE-HMW and PE-UHMW are suitable for neutron shielding, PE-UHMW is often preferred because of its better deformation behaviour at high temperatures and its superior impact strength and wear resistance.

natural



» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® DrySlide

PLATES

TIVAR® DrySlide					
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		
1	+0,0 +0,4 -0,2 +0,2	2,3	□	-	-
2		3,8	□	+0,0 +0,4	7,7
3		5,8	□	-	10,6
4		7,7	□	-0,2 +0,2	14,1
5		9,6	□	-	17,6
6		11,5	□	-0,3 +0,3	21,1
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		
8	-0,2 +0,2 -0,3 +0,3	15,7	□	+0,0 +0,4 +0,0 +0,6	29,7
10		20,0	□		37,0
12		24,1	□		44,3
15		30,1	□		55,1
20		40,1	□		73,3
25		50,1	□		91,4
30		60,1	□		109,6
35		70,1	□		127,7
40		80,2	□		145,8
45		90,2	□		164,0
50		100,2	□		182,1
60		120,2	□		218,4
70		140,3	□		254,7
80		160,3	□		291,3
90		180,4	□		327,6
100		200,4	□		363,9
110		220,4	□		400,1
120		240,5	□		436,4
130		260,5	□		-
140		280,6	□		-
150		300,6	□		-

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® TECH

PLATES

TIVAR® TECH					
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -
		kg / pce ⁽¹⁾	(mm)		kg / pce ⁽¹⁾
1	+0,0 +0,4 -0,2 +0,2	2,3	□	-	- -
2		3,8	□	+0,0 +0,4	7,7 □
3		5,8	□	-0,2 +0,2	10,6 □
4		7,7	□		14,1 □
5		9,6	□		17,6 □
6	-0,3 +0,3	11,5	□	-0,3 +0,3	21,1 □
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -
		kg / pce ⁽¹⁾	(mm)		kg / pce ⁽¹⁾
8	-0,2 +0,2	15,7	□	+0,0 +0,4	29,7 □
10		20,0	□		37,0 ■
12		24,1	□		44,3 □
15		30,1	□		55,1 ■
20		40,1	□		73,3 ■
25		50,1	□		91,4 □
30		60,1	□		109,6 □
35		70,1	□		127,7 □
40		80,2	□		145,8 □
45		90,2	□		164,0 □
50		100,2	□		182,1 □
60		120,2	□		218,4 □
70		140,3	□		254,7 □
80	-0,3 +0,3	160,3	□	+0,0 +0,6	291,3 □
90		180,4	□		327,6 □
100		200,4	□		363,9 □
110		220,4	□		400,1 □
120		240,5	□		436,4 □
130		260,5	□		- -
140		280,6	□		- -
150		300,6	□		- -

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® Oil Filled**PLATES**

TIVAR® Oil Filled								
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -		kg / pce ⁽¹⁾	
		kg / pce ⁽¹⁾	(mm)		kg / pce ⁽¹⁾	(mm)		
1	+0,0 +0,4	2,3	□	-	-	-	-	
2	-0,2 +0,2	3,8	□	+0,0 +0,4	7,7	□	-	
3		5,8	□	-0,2 +0,2	10,6	□	-	
4		7,7	□		14,1	□	-	
5		9,6	□		17,6	□	-	
6	-0,3 +0,3	11,5	□	-0,3 +0,3	21,1	□	-	
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -		kg / pce ⁽¹⁾	
		kg / pce ⁽¹⁾	(mm)		kg / pce ⁽¹⁾	(mm)		
8	-0,2 +0,2	15,7	□	+0,0 +0,4	29,7	□	-	
10		20,0	□		37,0	□	-	
12		24,1	□		44,3	□	-	
15		30,1	□		55,1	□	-	
20		40,1	■		73,3	□	-	
25		50,1	□		91,4	□	-	
30		60,1	□		109,6	□	-	
35		70,1	□		127,7	□	-	
40		80,2	□		145,8	□	-	
45		90,2	□		164,0	□	-	
50		100,2	□		182,1	□	-	
60		120,2	□		218,4	□	-	
70		140,3	□		254,7	□	-	
80	-0,3 +0,3	160,3	□	+0,0 +0,6	291,3	□	-	
90		180,4	□		327,6	□	-	
100		200,4	□		363,9	□	-	
110		220,4	□		400,1	□	-	
120		240,5	□		436,4	□	-	
130		260,5	□		-	-	-	
140		280,6	□		-	-	-	
150		300,6	□		-	-	-	

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® SurfaceProtect

PLATES

TIVAR® SurfaceProtect									
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
1	+0,0 +0,4	2,3	□	-	-	-	-	-	
2	-0,2 +0,2	3,8	□	+0,0 +0,4	7,7	□			
3		5,8	□	-0,2 +0,2	10,6	□			
4		7,7	□		14,1	□			
5		9,6	□		17,6	□			
6		11,5	□		21,1	□			
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
8	-0,2 +0,2	15,7	□	+0,0 +0,4	29,7	□			
10		20,0	■		37,0	□			
12		24,1	□		44,3	□			
15		30,1	■		55,1	□			
20		40,1	■		73,3	□			
25		50,1	□		91,4	□			
30		60,1	■		109,6	□			
35		70,1	□		127,7	□			
40		80,2	■		145,8	□			
45		90,2	□		164,0	□			
50		100,2	□		182,1	□			
60		120,2	□		218,4	□			
70		140,3	■		254,7	□			
80	-0,3 +0,3	160,3	□	+0,0 +0,6	291,3	□			
90		180,4	□		327,6	□			
100		200,4	□		363,9	□			
110		220,4	□		400,1	□			
120		240,5	□		436,4	□			
130		260,5	□		-	-			
140		280,6	□		-	-			
150		300,6	□		-	-			

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® ChainLine

PLATES

TIVAR® ChainLine									
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
1	+0,0 +0,4	2,3	□	-	-	-	-	-	
2	-0,2 +0,2	3,9	□	+0,0 +0,4	7,9	□			
3		5,9	□	-0,2 +0,2	10,7	□			
4		7,8	□		14,3	□			
5		9,8	□		17,9	□			
6		11,7	□		21,5	□			
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
8	-0,2 +0,2	16,0	□	+0,0 +0,4	30,2	□			
10		20,4	□		37,6	□			
12		24,4	□		45,0	□			
15		30,5	□		56,0	□			
20		40,7	□		74,5	□			
25		50,9	□		92,9	■			
30		61,1	□		111,3	□			
35		71,3	□		129,7	□			
40		81,4	□		148,2	□			
45		91,6	□		166,6	□			
50		101,8	□		185,0	□			
60		122,2	□		221,9	□			
70		142,5	□		258,7	□			
80	-0,3 +0,3	162,9	□	+0,0 +0,6	296,0	□			
90		183,3	□		332,8	□			
100		203,6	□		369,7	□			
110		224,0	□		406,6	□			
120		244,3	□		443,4	□			
130		264,7	□		-	-			
140		285,1	□		-	-			
150		305,4	□		-	-			

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® Cestigreen

PLATES

TIVAR® Cestigreen									
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
1	+0,0 +0,4	2,4	□	-	-	-	-	-	
2	-0,2 +0,2	4,0	□	+0,0 +0,4	8,0	□			
3		5,9	□	-0,2 +0,2	10,9	□			
4		7,9	□		14,5	□			
5		9,9	□		18,1	□			
6		11,9	□		21,8	□			
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
8	-0,2 +0,2	16,2	□	+0,0 +0,4	30,6	□			
10		20,6	□		38,1	□			
12		24,8	□		45,6	□			
15		31,0	□		56,8	□			
20		41,3	□		75,5	□			
25		51,6	□		94,2	□			
30		61,9	□		112,8	□			
35		72,2	□		131,5	□			
40		82,6	□		150,2	□			
45		92,9	□		168,9	□			
50		103,2	□		187,6	□			
60		123,8	□		224,9	□			
70		144,5	□		262,3	□			
80	-0,3 +0,3	165,1	□	+0,0 +0,6	300,0	□			
90		185,8	□		337,4	□			
100		206,4	□		374,8	□			
110		227,0	□		412,1	□			
120		247,7	□		449,5	□			
130		268,3	□		-	-			
140		289,0	□		-	-			
150		309,6	□		-	-			

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® DS grey

PLATES

TIVAR® DS grey							
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -		
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾
1	+0,0 +0,4 -0,2 +0,2	2,31	□	+0,0 +0,4 -0,2 +0,2	-	-	-
2		3,84	■		7,75	□	
3		5,77	■		10,57	□	
4		7,69	■		14,09	□	
5		9,61	■		17,61	□	
6		11,53	■		21,13	□	
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -		
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾
8	-0,2 +0,2 -0,3 +0,3	15,7	□	+0,0 +0,4 +0,0 +0,6	29,7	□	
10		20,0	□		37,0	□	
12		24,1	□		44,3	□	
15		30,1	□		55,1	□	
20		40,1	□		73,3	□	
25		50,1	□		91,4	□	
30		60,1	□		109,6	□	
35		70,1	□		127,7	□	
40		80,2	□		145,8	□	
45		90,2	□		164,0	□	
50		100,2	□		182,1	□	
60		120,2	□		218,4	□	
70		140,3	□		254,7	□	
80		160,3	□		291,3	□	
90		180,4	□		327,6	□	
100		200,4	□		363,9	□	
110		220,4	□		400,1	□	
120		240,5	□		436,4	□	
130		260,5	□		-	-	
140		280,6	□		-	-	
150		300,6	□		-	-	

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® DS grey

PLATES

TIVAR® DS grey		
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 2020 mm - pressed -
		kg / pce ⁽¹⁾
8		19,8 ■
10		24,6 ■
12		29,5 ■
15		36,7 ■
20		48,8 ■
25		60,8 ■
30	+0,0 +0,4	72,9 ■
35	+0,0 +0,4	85,0 ■
40	+0,0 +0,4	97,1 ■
45	+0,0 +0,4	109,1 ■
50	+0,0 +0,4	121,2 ■
60	+0,0 +0,4	145,4 ■
70	+0,0 +0,4	169,5 ■
80	+0,0 +0,6	193,9 ■
90	+0,0 +0,6	218,0 □
100	+0,0 +0,6	242,2 ■
110	+0,0 +0,6	266,3 □
120	+0,0 +0,6	290,5 □
130	+0,0 +0,6	314,6 □
140	+0,0 +0,6	338,8 □
150	+0,0 +0,6	362,9 □
160	+0,0 +0,6	387,1 □
170	+0,0 +0,6	411,2 □
195	+0,0 +0,6	471,6 □
250	+0,0 +0,6	604,4 □

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

plate size	width	length
1220 x 2020	0 +30,0	0 +60,0

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® DS yellow

PLATES

TIVAR® DS yellow							
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -		
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾
1	+0,0 +0,4	2,3	□	+0,0 +0,4 -0,2 +0,2	-	-	-
2	3,8	□	7,7		□		
3	5,8	□	10,6		□		
4	7,7	□	14,1		□		
5	9,6	□	17,6		□		
6	-0,3 +0,3	11,5	□		21,1	□	
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -		
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾
8	-0,2 +0,2	15,7	□	+0,0 +0,4	29,7	□	
10		20,0	□		37,0	□	
12		24,1	□		44,3	□	
15		30,1	□		55,1	□	
20		40,1	□		73,3	□	
25		50,1	□		91,4	□	
30		60,1	□		109,6	□	
35		70,1	□		127,7	□	
40		80,2	□		145,8	□	
45		90,2	□		164,0	□	
50		100,2	□		182,1	□	
60		120,2	□		218,4	□	
70		140,3	□		254,7	□	
80	-0,3 +0,3	160,3	□	+0,0 +0,6	291,3	□	
90		180,4	□		327,6	□	
100		200,4	□		363,9	□	
110		220,4	□		400,1	□	
120		240,5	□		436,4	□	
130		260,5	□		-	-	
140		280,6	□		-	-	
150		300,6	□		-	-	

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® Ceram P

PLATES

TIVAR® Ceram P								
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -		
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾		
1	+0,0 +0,4	2,4	□	-	-	-	-	-
2		3,9	□	+0,0 +0,4	8,0	□		
3		5,9	□		10,9	□		
4		7,9	□	+0,2 +0,2	14,5	□		
5		9,9	□		18,1	□		
6	-0,3 +0,3	11,8	□	-0,3 +0,3	21,7	□		
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -		
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾		
8		16,1	□			30,5	□	
10		20,6	□			38,0	□	
12		24,7	□			45,4	■	
15		30,9	□			56,6	□	
20		41,2	□			75,2	□	
25		51,4	□			93,9	□	
30		61,7	□	+0,0 +0,4		112,5	□	
35		72,0	□			131,1	□	
40		82,3	□			149,7	□	
45		92,6	□			168,4	□	
50		102,9	□			187,0	□	
60		123,5	□			224,2	□	
70		144,0	□			261,5	□	
80		164,6	□			299,1	□	
90		185,2	□			336,3	□	
100		205,8	□			373,6	□	
110		226,3	□	+0,0 +0,6		410,8	□	
120		246,9	□			448,1	□	
130		267,5	□			-	-	
140		288,1	□			-	-	
150		308,6	□			-	-	

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® SuperPlus

PLATES

TIVAR® SuperPlus						
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -	
		kg / pce ⁽¹⁾			kg / pce ⁽¹⁾	
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-
8	-	-	-	-	-	-
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -	
		kg / pce ⁽¹⁾			kg / pce ⁽¹⁾	
10	-0,2 +0,2	20,6	□	+0,0 +0,4	38,0	□
12		24,7	□		45,4	□
15		30,9	□		56,6	□
20		41,2	■		75,2	□
25		51,4	□		93,9	□
30		61,7	□		112,5	□
35		72,0	□		131,1	□
40		82,3	□		149,7	□
45		92,6	□		168,4	□
50		102,9	□		187,0	□
60		123,5	□		224,2	□
70		144,0	□		261,5	□
80	-0,3 +0,3	164,6	□	+0,0 +0,6	299,1	□
90		185,2	□		336,3	□
100		205,8	□		373,6	□
110		226,3	□		410,8	□
120		246,9	□		448,1	□
130		267,5	□		-	-
140		288,1	□		-	-
150		308,6	□		-	-

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

plate size	width	length
1010 x 2020	0 +30,0	0 +60,0
1220 x 3050	0 +30,0	0 +60,0

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® Xtended Wear**PLATES**

TIVAR® Xtended Wear						
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -	
		kg / pce ⁽¹⁾			kg / pce ⁽¹⁾	
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-
8	-	-	-	-	-	-
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -	
		kg / pce ⁽¹⁾			kg / pce ⁽¹⁾	
10	-0,2 +0,2	21,9	□	+0,0 +0,4	40,4	□
12		26,2	□		48,3	□
15		32,8	□		60,2	□
20		43,7	□		79,9	□
25		54,7	□		99,7	□
30		65,6	□		119,5	□
35		76,5	□		139,3	□
40		87,4	□		159,1	□
45		98,4	□		178,9	□
50		109,3	□		198,7	□
60		131,2	□		238,2	□
70		153,0	□		277,8	□
80	-0,3 +0,3	174,9	□	+0,0 +0,6	317,8	□
90		196,8	□		357,4	□
100		218,6	□		396,9	□
110		240,5	□		436,5	□
120		262,3	□		476,1	□
130		284,2	□		-	-
140		306,1	□		-	-
150		327,9	□		-	-

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

plate size	width	length
1010 x 2020	0 +30,0	0 +60,0
1220 x 3050	0 +30,0	0 +60,0

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® VisiLiner

PLATES

TIVAR® VisiLiner						
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -	
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -	
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾
8	-0,2 +0,2	16,1	□	+0,0 +0,4	30,5	□
10		20,6	□		38,0	□
12		24,7	□		45,4	□
15		30,9	□		56,6	□
20		41,2	□		75,2	□
25	-	-	-	-	-	-
30	-	-	-	-	-	-
35	-	-	-	-	-	-
40	-	-	-	-	-	-
45	-	-	-	-	-	-
50	-	-	-	-	-	-
60	-	-	-	-	-	-
70	-	-	-	-	-	-
80	-	-	-	-	-	-
90	-	-	-	-	-	-
100	-	-	-	-	-	-
110	-	-	-	-	-	-
120	-	-	-	-	-	-
130	-	-	-	-	-	-
140	-	-	-	-	-	-
150	-	-	-	-	-	-

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm): plate size width length
1010 x 2020 / 1220 x 3050 0 +30,0 0 +60,0

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® H.O.T.**PLATES**

TIVAR® H.O.T.							
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -		
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾
1	+0,0 +0,4 -0,2 +0,2	2,3	□	+0,0 +0,4 -0,2 +0,2	-	-	-
2		3,8	□		7,7	□	
3		5,8	□		10,6	□	
4		7,7	□		14,1	□	
5		9,6	□		17,6	□	
6		11,5	□		21,1	□	
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -		
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾
8	-0,2 +0,2 -0,3 +0,3	15,7	□	+0,0 +0,4 +0,0 +0,6	29,7	□	
10		20,0	■		37,0	□	
12		24,1	□		44,3	□	
15		30,1	■		55,1	□	
20		40,1	■		73,3	■	
25		50,1	□		91,4	□	
30		60,1	■		109,6	□	
35		70,1	□		127,7	□	
40		80,2	■		145,8	□	
45		90,2	□		164,0	□	
50		100,2	□		182,1	□	
60		120,2	□		218,4	□	
70		140,3	□		254,7	□	
80		160,3	□		291,3	□	
90		180,4	□		327,6	□	
100		200,4	□		363,9	□	
110		220,4	□		400,1	□	
120		240,5	□		436,4	□	
130		260,5	□		-	-	
140		280,6	□		-	-	
150		300,6	□		-	-	

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® Burnguard

PLATES

TIVAR® Burnguard								
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -		
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾		
1	+0,0 +0,4 -0,2 +0,2	2,5	□	-	+0,0 +0,4 -0,2 +0,2	-	-	-
2		4,1	□	+0,0 +0,4		8,3	□	
3		6,2	□	11,3		□		
4		8,2	□	15,1		□		
5		10,3	□	18,8		□		
6		12,3	□	-0,3 +0,3		22,6	□	
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -		
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾		
8	-0,2 +0,2 -0,3 +0,3	16,8	□	+0,0 +0,4 +0,0 +0,6	+0,0 +0,4 +0,0 +0,6	31,8	□	
10		21,4	■			39,6	□	
12		25,7	□			47,3	□	
15		32,2	□			59,0	□	
20		42,9	□			78,4	□	
25		53,6	□			97,8	□	
30		64,3	□			117,2	□	
35		75,0	□			136,6	□	
40		85,7	□			156,0	□	
45		96,4	□			175,4	□	
50		107,2	□			194,8	□	
60		128,6	□			233,6	□	
70		150,0	□			272,4	□	
80		171,5	□			311,6	□	
90		192,9	□			350,4	□	
100		214,3	□			389,2	□	
110		235,8	□			428,0	□	
120		257,2	□			466,8	□	
130		278,6	□			-	-	
140		300,1	□			-	-	
150		321,5	□			-	-	

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® CleanStat

PLATES

TIVAR® CleanStat									
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
1	+0,0 +0,4	2,3	□	-	-	-	-	-	
2	-0,2 +0,2	3,9	□	+0,0 +0,4	7,9	□			
3		5,9	□	-0,2 +0,2	10,7	□			
4		7,8	□		14,3	□			
5		9,8	□		17,9	□			
6		11,7	□		21,5	□			
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
8	-0,2 +0,2	16,0	□	+0,0 +0,4	30,2	□			
10		20,4	■		37,6	□			
12		24,4	□		45,0	□			
15		30,5	■		56,0	□			
20		40,7	■		74,5	□			
25		50,9	□		92,9	□			
30		61,1	□		111,3	□			
35		71,3	□		129,7	□			
40		81,4	□		148,2	□			
45		91,6	□		166,6	□			
50		101,8	□		185,0	□			
60		122,2	□		221,9	□			
70		142,5	□		258,7	□			
80	-0,3 +0,3	162,9	□	+0,0 +0,6	296,0	□			
90		183,3	□		332,8	□			
100		203,6	□		369,7	□			
110		224,0	□		406,6	□			
120		244,3	□		443,4	□			
130		264,7	□		-	-			
140		285,1	□		-	-			
150		305,4	□		-	-			

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 ASTL

PLATES

TIVAR® 1000 ASTL		
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 2020 mm - pressed -
		kg / pce ⁽¹⁾
8	+0,0 +0,4	19,8 ■
10		24,6 ■
12		29,5 ■
15		36,7 ■
20		48,8 ■
25		60,8 ■
30		72,9 ■
35		85,0 ■
40		97,1 ■
45		109,1 □
50		121,2 ■
60		145,4 ■
70		169,5 □
80		193,9 □
90	+0,0 +0,6	218,0 □
100		242,2 □
110		266,3 □
120		290,5 □
130		314,6 □
140		338,8 □
150		362,9 □
160		387,1 □
170		411,2 □
195		471,6 □
250		604,4 □

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

plate size	width	length
1220 x 2020	0 +30,0	0 +60,0

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 EC

PLATES

TIVAR® 1000 EC							
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -		
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾
1	+0,0 +0,4 -0,2 +0,2 -0,3 +0,3	2,3	□	+0,0 +0,4 -0,2 +0,2 -0,3 +0,3	-	-	-
2		3,9	□		7,9	□	
3		5,9	□		10,7	□	
4		7,8	□		14,3	□	
5		9,8	□		17,9	□	
6		11,7	□		21,5	□	
8		16,0	□		29,7	□	
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -		
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾
10	-0,2 +0,2 -0,3 +0,3	20,4	□	+0,0 +0,4 +0,0 +0,6	37,6	□	
12		24,4	□		45,0	□	
15		30,5	□		56,0	□	
20		40,7	□		74,5	□	
25		50,9	□		92,9	□	
30		61,1	□		111,3	□	
35		71,3	□		129,7	□	
40		81,4	□		148,2	□	
45		91,6	□		166,6	□	
50		101,8	□		185,0	□	
60		122,2	□		221,9	□	
70		142,5	□		258,7	□	
80		162,9	□		296,0	□	
90		183,3	□		332,8	□	
100		203,6	□		369,7	□	
110		224,0	□		406,6	□	
120		244,3	□		443,4	□	
130		264,7	□		-	-	
140		285,1	□		-	-	
150		305,4	□		-	-	

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

PLATES

TIVAR® 1000 EC		
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 2020 x 6150 mm - pressed -
		kg / pce ⁽¹⁾
8	+0,0 +0,4	99,9 <input type="checkbox"/> ⁽³⁾
10		124,3 <input type="checkbox"/> ⁽³⁾
12		148,7 <input type="checkbox"/>
15		185,2 <input type="checkbox"/>
20		246,2 <input type="checkbox"/>
25		307,1 <input type="checkbox"/>
30		368,0 <input type="checkbox"/>
35		429,0 <input type="checkbox"/>
40		489,9 <input type="checkbox"/>
45		550,8 <input type="checkbox"/>
50		611,8 <input type="checkbox"/>
60		733,6 <input type="checkbox"/>
70		855,5 <input type="checkbox"/>
80		978,6 <input type="checkbox"/>

: non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

plate size 2020 x 6150	width 0 +30,0	length 0 +60,0
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(3) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

Borotron® UH

PLATES

Borotron® UH					
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		
8	-0,2 +0,2	-	-	+0,0 +0,4	-
10		20,6	□		38,0
12		24,7	□		45,4
15		30,9	□		56,6
20		41,2	□		75,2
25		51,4	□		93,9
30		61,7	□		112,5
35		72,0	□		131,1
40		82,3	□		149,7
45		92,6	□		168,4
50		102,9	□		187,0
60		123,5	□		224,2
70		144,0	□		261,5
80		164,6	□		299,1
90	-0,3 +0,3	185,2	□	+0,0 +0,6	336,3
100		205,8	□		373,6
110		226,3	□		410,8
120		246,9	□		448,1
130		267,5	□		-
140		288,1	□		-
150		308,6	□		-

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm): plate size width length
1010 x 2020 / 1220 x 3050 0 +30,0 0 +60,0

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

Borotron® HM

PLATES

Borotron® HM					
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		
8	-0,2 +0,2	-	-	+0,0 +0,4	-
10		21,4	□		39,6
12		25,7	□		47,3
15		32,2	□		59,0
20		42,9	□		78,4
25		53,6	□		97,8
30		64,3	□		117,2
35		75,0	□		136,6
40		85,7	□		156,0
45		96,4	□		175,4
50		107,2	□		194,8
60		128,6	□		233,6
70		150,0	□		272,4
80		171,5	□	+0,0 +0,6	311,6
90		192,9	□		350,4
100		214,3	□		389,2
110		235,8	□		428,0
120		257,2	□		466,8
130		278,6	□		-
140		300,1	□		-
150		321,5	□		-

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm): plate size width length
1010 x 2020 / 1220 x 3050 0 +30,0 0 +60,0

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® DS grey

ROUND RODS, PRESSED AND TURNED

TIVAR® DS, grey			
Diameters (mm)	Tolerances on the diameters (mm)	Standard length per piece : 1000 mm ⁽¹⁾ , 2000 mm ⁽²⁾	
		kg / 1000 mm ⁽³⁾	kg / 2000 mm ⁽³⁾
20	+0,0 +1,0	0,3	■
25		0,5	■
30		0,7	■
35		0,9	■
40		1,2	■
45		1,5	■
50		1,9	■
55		2,3	■
60		2,7	■
70		3,7	■
80		4,8	■
90		6,0	■
100		7,4	■
110		9,0	■
120		10,7	■
125		11,6	□
130		12,5	■
140		14,5	■
150		16,7	■
160	+0,0 +2,0	19,0	□
170		21,4	□
180		24,0	□
190		26,7	□
200		29,6	■
210		32,6	□
220		35,8	□
230		39,1	□
240		42,6	□
250		-	-

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) tolerances on the length +5/+7mm

(2) tolerances on the length +15/+17mm

(3) average production weight

TIVAR is the brand name of Quadrant Engineering Plastic Products for its extensive range of virgin, partially reprocessed, coloured or modified Ultra High Molecular Weight Polyethylene stock shapes, manufactured by compression moulding or extrusion.



MAIN CHARACTERISTICS

- Very good wear and abrasion resistance
- High impact strength, even at low temperatures
- Excellent chemical resistance
- Low density compared with other thermoplastics ($\approx 1 \text{ g/cm}^3$)
- Low coefficient of friction
- Excellent release properties
- Very low water absorption
- Moderate mechanical strength, stiffness and creep resistance
- Very good electrical insulating and dielectric properties (except static dissipative grades)
- Excellent machinability
- Physiologically inert (several grades are suitable for food contact)
- Good resistance to high energy radiation (gamma- and X-rays)
- Not self-extinguishing (except TIVAR Burnguard)

APPLICATIONS

Gears, bearings, wear plates, support-, tension- and deflecting rollers, rope pulleys, chain sprockets, bumpers, scraper blades, piston rings and packings, seals, valves, hammerheads, conveyor screws, star wheels and bends, corner tracks, parcel chutes, pumps, filter plates, pickers, beater caps, linings for bunkers, silos, chutes and funnels for bulk materials, punching plates, cutting and chopping boards, ...

Grades

TIVAR®

TIVAR 1000

TIVAR 1000 exhibits a very well balanced property profile. It combines a very good wear and abrasion resistance with an outstanding impact strength, even at temperatures below -200°C.

[PE-UHMW]

natural
green
black
blue
sky blue
grey
orange
red
yellow

TIVAR 1000 R

This grade, partially composed of reprocessed PE-UHMW material, has an overall lower property level than the virgin TIVAR 1000 and a lower cost. Compared with virgin PE 500, however, it has a much better impact strength and wear resistance. Our TIVAR 1000 R grades show a favourable price-performance ratio for applications in many kinds of industries with less demanding requirements.

[PE-UHMW]

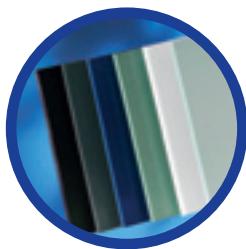
green
black

TIVAR 1000 ESD

[PE-UHMW + additive; static dissipative]

By incorporating an effective carbon black grade, TIVAR 1000 ESD offers the electrostatic dissipative properties often required for PE-UHMW components operating at high line speeds and conveying rates, maintaining the inherent key characteristics of PE-UHMW.

black



>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 natural

PLATES

TIVAR® 1000 natural								
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -		
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾		
		1	+0,0	+0,4	2,3	□	-	-
2	-0,2 +0,2	3,8	■		+0,0	+0,4	7,7	■
		5,8	■				10,6	■
		7,7	■				14,1	■
		9,6	■				17,6	■
		11,5	■				21,1	■
6	-0,3 +0,3	15,4	■				28,2	■
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -		
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾		
		10	20,0	■		37,0	■	
12	-0,2 +0,2	24,1	■			44,3	■	
		30,1	■			55,1	■	
		40,1	■			73,3	■	
		50,1	■			91,4	■	
		60,1	■			109,6	■	
		70,1	■			127,7	□	
		80,2	□			145,8	□	
		90,2	□			164,0	□	
		100,2	■			182,1	□	
		120,2	■			218,4	□	
		140,3	□			254,7	□	
		160,3	■			291,3	□	
		180,4	□			327,6	□	
		200,4	■			363,9	□	
		220,4	□			400,1	□	
80	-0,3 +0,3	240,5	□			436,4	□	
		260,5	□			-	-	
		280,6	□			-	-	
		300,6	□			-	-	

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 natural

PLATES

TIVAR® 1000 natural					
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 2020 mm - pressed -	Standard size per piece ⁽²⁾ : 1330 x 3050 mm - pressed -	Standard size per piece ⁽²⁾ : 2020 x 6150 mm - pressed -	
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	
8	+0,0 +0,4	19,8 ■	32,4 □	98,4 □ ⁽³⁾	
10		24,6 ■	40,3 □	122,3 □ ⁽³⁾	
12		29,5 ■	48,2 □	146,3 □	
15		36,7 ■	60,1 □	182,3 □	
20		48,8 ■	79,8 □	242,3 □	
25		60,8 ■	99,6 □	302,3 □	
30		72,9 ■	119,3 □	362,2 □	
35		85,0 ■	139,1 □	422,2 □	
40		97,1 ■	158,8 □	482,2 □	
45		109,1 ■	178,6 □	542,1 □	
50		121,2 ■	198,3 □	602,1 □	
60		145,4 ■	237,8 □	722,0 □	
70		169,5 ■	277,3 □	842,0 □	
80		193,9 ■	317,3 □	963,1 □	
90		218,0 ■	356,8 □	- -	
100		242,2 ■	396,3 □	- -	
110		266,3 □	435,8 □	- -	
120	+0,0 +0,6	290,5 □	475,3 □	- -	
130		314,6 □	- -	- -	
140		338,8 □	- -	- -	
150		362,9 □	- -	- -	
160		387,1 □	- -	- -	
170		411,2 □	- -	- -	
195		471,6 □	- -	- -	
250		604,4 □	- -	- -	

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm): plate size width length
1220 x 2020 / 1330 x 3050 / 2020 x 6150 0 +30,0 0 +60,0

(3) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 green

PLATES

TIVAR® 1000 green									
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
		1	+0,0	+0,4	2,3	□	-	-	
2	-0,2 +0,2	3,8	■	+0,0 +0,4	7,7	■			
3		5,8	■		10,6	■			
4		7,7	■		14,1	■			
5		9,6	■		17,6	■			
6		11,5	■		21,1	■			
8	-0,3 +0,3	15,4	■	-0,3 +0,3	28,2	■			
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
10	-0,2 +0,2	20,0	■	+0,0 +0,4	37,0	■			
12		24,1	■		44,3	□			
15		30,1	■		55,1	□			
20		40,1	■		73,3	□			
25		50,1	■		91,4	□			
30		60,1	■		109,6	□			
35		70,1	□		127,7	□			
40		80,2	□		145,8	□			
45		90,2	□		164,0	□			
50		100,2	□		182,1	□			
60		120,2	□		218,4	□			
70		140,3	□		254,7	□			
80	-0,3 +0,3	160,3	□	+0,0 +0,6	291,3	□			
90		180,4	□		327,6	□			
100		200,4	□		363,9	□			
110		220,4	□		400,1	□			
120		240,5	□		436,4	□			
130		260,5	□		-	-			
140		280,6	□		-	-			
150		300,6	□		-	-			

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 green

PLATES

TIVAR® 1000 green					
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 2020 mm - pressed -	Standard size per piece ⁽²⁾ : 1330 x 3050 mm - pressed -	Standard size per piece ⁽²⁾ : 2020 x 6150 mm - pressed -	
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	
8	+0,0 +0,4	19,8 □	32,4 □	98,4 □ ⁽³⁾	
10		24,6 □	40,3 □	122,3 □ ⁽³⁾	
12		29,5 □	48,2 □	146,3 □	
15		36,7 □	60,1 □	182,3 □	
20		48,8 □	79,8 □	242,3 □	
25		60,8 □	99,6 □	302,3 □	
30		72,9 □	119,3 □	362,2 □	
35		85,0 □	139,1 □	422,2 □	
40		97,1 □	158,8 □	482,2 □	
45		109,1 □	178,6 □	542,1 □	
50		121,2 □	198,3 □	602,1 □	
60		145,4 □	237,8 □	722,0 □	
70		169,5 □	277,3 □	842,0 □	
80		193,9 □	317,3 □	963,1 □	
90		218,0 □	356,8 □	- -	
100		242,2 □	396,3 □	- -	
110		266,3 □	435,8 □	- -	
120		290,5 □	475,3 □	- -	
130	+0,0 +0,6	314,6 □	- -	- -	
140		338,8 □	- -	- -	
150		362,9 □	- -	- -	
160		387,1 □	- -	- -	
170		411,2 □	- -	- -	
195		471,6 □	- -	- -	
250		604,4 □	- -	- -	

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm): plate size width length
1220 x 2020 / 1330 x 3050 / 2020 x 6150 0 +30,0 0 +60,0

(3) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 other colours

PLATES

TIVAR® 1000 other colours									
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
1	+0,0 +0,4	2,3	□	-	-	-	-	-	
2	-0,2 +0,2	3,8	□	+0,0 +0,4	7,7	□			
3		5,8	□	-0,2 +0,2	10,6	□			
4		7,7	□		14,1	□			
5		9,6	□		17,6	□			
6		11,5	□		21,1	□			
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
8	-0,2 +0,2	15,7	□	+0,0 +0,4	29,3	□			
10		20,0	□		37,0	□			
12		24,1	□		44,3	□			
15		30,1	□		55,1	□			
20		40,1	□		73,3	□			
25		50,1	□		91,4	□			
30		60,1	□		109,6	□			
35		70,1	□		127,7	□			
40		80,2	□		145,8	□			
45		90,2	□		164,0	□			
50		100,2	□		182,1	□			
60		120,2	□		218,4	□			
70		140,3	□		254,7	□			
80		160,3	□	+0,0 +0,6	291,3	□			
90		180,4	□		327,6	□			
100		200,4	□		363,9	□			
110		220,4	□		400,1	□			
120		240,5	□		436,4	□			
130	-0,3 +0,3	260,5	□		-	-			
140		280,6	□		-	-			
150		300,6	□		-	-			

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

TIVAR® 1000 other colours

PLATES

TIVAR® 1000 other colours					
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 2020 mm - pressed -	Standard size per piece ⁽²⁾ : 1330 x 3050 mm - pressed -	Standard size per piece ⁽²⁾ : 2020 x 6150 mm - pressed -	
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	kg / pce ⁽¹⁾	
8	+0,0 +0,4	19,8	32,4	98,4	□ ⁽³⁾
10		24,6	40,3	122,3	□ ⁽³⁾
12		29,5	48,2	146,3	□
15		36,7	60,1	182,3	□
20		48,8	79,8	242,3	□
25		60,8	99,6	302,3	□
30		72,9	119,3	362,2	□
35		85,0	139,1	422,2	□
40		97,1	158,8	482,2	□
45		109,1	178,6	542,1	□
50		121,2	198,3	602,1	□
60		145,4	237,8	722,0	□
70		169,5	277,3	842,0	□
80		193,9	317,3	963,1	□
90		218,0	356,8	-	-
100		242,2	396,3	-	-
110		266,3	435,8	-	-
120	+0,0 +0,6	290,5	475,3	-	-
130		314,6	-	-	-
140		338,8	-	-	-
150		362,9	-	-	-
160		387,1	-	-	-
170		411,2	-	-	-
195		471,6	-	-	-
250		604,4	-	-	-

COLOURS AVAILABLE:

TIVAR® 1000 black

TIVAR® 1000 orange

TIVAR® 1000 blue

TIVAR® 1000 red

TIVAR® 1000 sky blue

TIVAR® 1000 yellow

TIVAR® 1000 grey

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm): plate size width length
1220 x 2020 / 1330 x 3050 / 2020 x 6150 0 +30,0 0 +60,0

(3) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 ESD

PLATES

TIVAR® 1000 ESD									
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
1	+0,0 +0,4	2,3	□	-	-	-	-	-	
2	-0,2 +0,2	3,9	■	+0,0 +0,4	7,9	■			
3		5,9	■	-0,2 +0,2	10,7	■			
4		7,8	■		14,3	■			
5		9,8	■		17,9	■			
6		11,7	■		21,5	■			
8		15,6	■		28,6	■			
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
10	-0,2 +0,2	20,4	■	+0,0 +0,4	37,6	□			
12		24,4	■		45,0	□			
15		30,5	■		56,0	□			
20		40,7	■		74,5	□			
25		50,9	■		92,9	□			
30		61,1	■		111,3	□			
35		71,3	□		129,7	□			
40		81,4	□		148,2	□			
45		91,6	□		166,6	□			
50		101,8	□		185,0	□			
60		122,2	□		221,9	□			
70		142,5	□		258,7	□			
80		162,9	□	+0,0 +0,6	296,0	□			
90		183,3	□		332,8	□			
100		203,6	□		369,7	□			
110		224,0	□		406,6	□			
120		244,3	□		443,4	□			
130	-0,3 +0,3	264,7	□		-	-			
140		285,1	□		-	-			
150		305,4	□		-	-			

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 ESD

PLATES

TIVAR® 1000 ESD					
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1330 x 3050 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 2020 x 6150 mm - pressed -
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		
8	+0,0 +0,4	32,9	<input type="checkbox"/>	+0,0 +0,4	99,9 <input type="checkbox"/> ⁽³⁾
10		40,9	<input type="checkbox"/>		124,3 <input type="checkbox"/> ⁽³⁾
12		49,0	<input type="checkbox"/>		148,7 <input type="checkbox"/>
15		61,0	<input type="checkbox"/>		185,2 <input type="checkbox"/>
20		81,1	<input type="checkbox"/>		246,2 <input type="checkbox"/>
25		101,2	<input type="checkbox"/>		307,1 <input type="checkbox"/>
30		121,2	<input type="checkbox"/>		368,0 <input type="checkbox"/>
35		141,3	<input type="checkbox"/>		429,0 <input type="checkbox"/>
40		161,4	<input type="checkbox"/>		489,9 <input type="checkbox"/>
45		181,4	<input type="checkbox"/>		550,8 <input type="checkbox"/>
50		201,5	<input type="checkbox"/>		611,8 <input type="checkbox"/>
60		241,7	<input type="checkbox"/>		733,6 <input type="checkbox"/>
70		281,8	<input type="checkbox"/>		855,5 <input type="checkbox"/>
80		322,3	<input type="checkbox"/>		978,6 <input type="checkbox"/>
90	+0,0 +0,6	362,5	<input type="checkbox"/>		- -
100		402,6	<input type="checkbox"/>	+0,0 +0,6	- -
110		442,8	<input type="checkbox"/>		- -
120		482,9	<input type="checkbox"/>		- -

: non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm): plate size width length
1330 x 3050 / 2020 x 6150 0 +30,0 0 +60,0

(3) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 R green

PLATES

TIVAR® 1000 R green									
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
1	+0,0 +0,4	2,3	□	-	-	-	-	-	
2	-0,2 +0,2	3,9	□	+0,0 +0,4	7,8	□			
3		5,8	□	-0,2 +0,2	10,6	□			
4		7,7	□		14,2	□			
5		9,7	□		17,7	□			
6		11,6	□		21,2	□			
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
8	-0,2 +0,2	15,8	■	+0,0 +0,4	29,4	□			
10		20,1	■		37,2	■			
12		24,2	■		44,5	■			
15		30,2	■		55,4	■			
20		40,3	■		73,7	■			
25		50,4	■		91,9	■			
30		60,4	■		110,1	■			
35		70,5	□		128,4	■			
40		80,6	■		146,6	■			
45		90,7	□		164,8	□			
50		100,7	■		183,1	■			
60		120,9	□		219,6	□			
70		141,0	□		256,0	□			
80		161,2	□	+0,0 +0,6	292,9	□			
90		181,3	□		329,3	□			
100		201,5	□		365,8	□			
110		221,6	□		402,3	□			
120		241,8	□		438,7	□			
130		261,9	□		-	-			
140		282,1	□		-	-			
150		302,2	□		-	-			

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 R green

PLATES

TIVAR® 1000 R green					
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 2020 x 6150 mm - pressed -
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		
8	+0,0 +0,4	19,9	■	+0,0 +0,4	98,9 □ ⁽³⁾
10		24,8	■		123,0 □ ⁽³⁾
12		29,6	■		147,1 □
15		36,9	■		183,3 □
20		49,0	■		243,6 □
25		61,2	■		303,9 □
30		73,3	■		364,2 □
35		85,4	■		424,4 □
40		97,6	■		484,7 □
45		109,7	■		545,0 □
50		121,9	■		605,3 □
60		146,1	□		725,9 □
70		170,4	□		- -
80	+0,0 +0,6	194,9	□	+0,0 +0,6	- -
90		219,2	□		- -
100		243,5	□		- -
110		267,7	□		- -
120		292,0	□		- -
130		316,3	□		- -
140		340,6	□		- -
150		364,8	□		- -

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm): plate size width length

1220 x 2020 / 2020 x 6150 0 +30,0 0 +60,0

(3) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 R black

PLATES

TIVAR® 1000 R black									
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1000 x 2000 mm - skived -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3000 mm - skived -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
1	+0,0 +0,4	2,3	□	-	-	-	-	-	
2	-0,2 +0,2	3,9	□	+0,0 +0,4	7,9	□			
3		5,9	□	-0,2 +0,2	10,7	□			
4		7,8	□		14,3	□			
5		9,8	□		17,9	□			
6		11,7	□		21,5	□			
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1010 x 2020 mm - pressed -			Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 3050 mm - pressed -			
		kg / pce ⁽¹⁾				kg / pce ⁽¹⁾			
8	-0,2 +0,2	16,0	□	+0,0 +0,4	29,7	□			
10		20,4	■		37,6	■			
12		24,4	■		45,0	■			
15		30,5	■		56,0	■			
20		40,7	■		74,5	■			
25		50,9	■		92,9	■			
30		61,1	■		111,3	■			
35		71,3	□		129,7	■			
40		81,4	■		148,2	■			
45		91,6	□		166,6	□			
50		101,8	■		185,0	■			
60		122,2	■		221,9	□			
70		142,5	□		258,7	□			
80	-0,3 +0,3	162,9	□	+0,0 +0,6	296,0	□			
90		183,3	□		332,8	□			
100		203,6	□		369,7	□			
110		224,0	□		406,6	□			
120		244,3	□		443,4	□			
130		264,7	□		-	-			
140		285,1	□		-	-			
150		305,4	□		-	-			

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm):

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

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 R black

PLATES

TIVAR® 1000 R black					
Thicknesses (mm)	Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 1220 x 2020 mm - pressed -		Tolerances on the thickness (mm)	Standard size per piece ⁽²⁾ : 2020 x 6150 mm - pressed -
		kg / pce ⁽¹⁾	kg / pce ⁽¹⁾		
8	+0,0 +0,4	20,1	■	+0,0 +0,4	99,9 □ ⁽³⁾
10		25,0	■		124,3 □ ⁽³⁾
12		29,9	■		148,7 □
15		37,3	■		185,2 □
20		49,6	■		246,2 □
25		61,8	■		307,1 □
30		74,1	■		368,0 □
35		86,4	■		429,0 □
40		98,6	■		489,9 □
45		110,9	■		550,8 □
50		123,2	■		611,8 □
60		147,7	□		733,6 □
70		172,2	□		- -
80	+0,0 +0,6	197,0	□	+0,0 +0,6	- -
90		221,5	□		- -
100		246,1	□		- -
110		270,6	□		- -
120		295,1	□		- -
130		319,7	□		- -
140		344,2	□		- -
150		368,7	□		- -

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on widths and lengths (mm): plate size width length

1220 x 2020 / 2020 x 6150 0 +30,0 0 +60,0

(3) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

» ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 natural/black/green

ROUND RODS, EXTRUDED

Diameters (mm)	Tolerances on the diameters (mm)	Weight		TIVAR® 1000 natural	TIVAR® 1000 black	TIVAR® 1000 green
		Standard length per piece : 1000 mm ⁽¹⁾ , 2000 mm ⁽¹⁾				
		kg / 1000 mm ⁽²⁾	kg / 2000 mm ⁽²⁾			
20	+0,2 +1	0,3	0,6	■	■	■
25	+0,2 +1,1	0,5	1,0	■	■	■
30	+0,2 +1,2	0,7	1,5	■	■	■
35	+0,2 +1,3	1,0	2,0	■	■	■
40	+0,2 +1,5	1,3	2,6	■	■	■
45	+0,3 +1,7	1,6	3,3	■	■	■
50	+0,3 +2,0	2,0	4,1	■	■	■
55		2,5	4,9	■	■	■
60	+0,3 +2,3	2,9	5,8	■	■	■
70	+0,3 +2,5	4,0	7,9	■	■	■
80	+0,4 +3,0	5,2	10,4	■	■	■
90	+0,5 +3,4	6,6	13,1	■	■	■
100	+0,6 +3,8	8,1	16,2	■	■	■
110	+0,7 +4,2	9,8	19,6	■	■	■
120	+0,8 +4,6	11,7	23,3	■	■	■
125		12,7	25,3	■	■	■
130	+0,9 +5,4	13,7	27,4	■	■	■
140		15,9	31,7	■	■	■
150	+1,0 +5,8	18,2	36,4	■	■	■
160	+1,1 +6,3	20,7	41,5	■	■	■
170	-	-	-	-	-	-
180	+1,2 +7,4	26,2	52,5	■	■	■
190	-	-	-	-	-	-
200	+1,3 +8,5	32,4	64,8	■	■	■
210	-	-	-	-	-	-
220		-	-	-	-	-
230		-	-	-	-	-
240		-	-	-	-	-
250	+1,3 +9	50,6	101,2	□	□	□

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) tolerances on the length 0/+60 mm

(2) average production weight

TIVAR® 1000 natural/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 ⁽¹⁾ , 2000 mm ⁽²⁾				Standard length per piece : 1000 mm ⁽¹⁾ , 2000 mm ⁽²⁾			
		kg / 1000 mm ⁽³⁾	kg / 2000 mm ⁽³⁾	kg / 1000 mm ⁽³⁾	kg / 2000 mm ⁽³⁾	kg / 1000 mm ⁽³⁾	kg / 2000 mm ⁽³⁾	kg / 1000 mm ⁽³⁾	kg / 2000 mm ⁽³⁾
20	+0,0 +1,0	0,3	■	0,7	■	0,3	■	0,7	■
25		0,5	■	1,0	■	0,5	□	1,0	□
30		0,7	■	1,4	■	0,7	■	1,4	■
35		1,0	■	2,0	■	1,0	□	2,0	□
40		1,3	■	2,6	■	1,3	■	2,6	■
45		1,6	■	3,2	■	1,6	□	3,2	□
50		2,0	■	4,0	■	2,0	■	4,0	■
55		2,4	■	4,8	■	2,4	□	4,8	□
60		2,9	■	5,7	■	2,9	■	5,7	■
70		3,9	■	7,7	■	3,9	■	7,7	■
80		5,1	■	10,1	■	5,1	□	10,1	□
90		6,4	■	12,8	■	6,4	□	12,8	□
100		7,9	■	15,7	■	7,9	□	15,7	□
110		9,5	■	-	-	9,5	□	-	-
120		11,3	■	-	-	11,3	□	-	-
125		12,3	□	-	-	12,3	□	-	-
130		13,3	■	-	-	13,3	□	-	-
140		15,4	■	-	-	15,4	□	-	-
150		17,6	■	-	-	17,6	□	-	-
160	+0,0 +2,0	20,1	□	-	-	20,1	□	-	-
170		22,6	□	-	-	22,6	□	-	-
180		25,4	□	-	-	25,4	□	-	-
190		28,2	□	-	-	28,2	□	-	-
200		31,3	□	-	-	31,3	□	-	-
210		34,5	□	-	-	34,5	□	-	-
220		37,8	□	-	-	37,8	□	-	-
230		41,4	□	-	-	41,4	□	-	-
240		45,0	□	-	-	45,0	□	-	-
250		-	-	-	-	-	-	-	-

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) tolerances on the length +5/+7 mm

(2) tolerances on the length +15/+17 mm

(3) average production weight

>> ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-UHMW]

TIVAR® 1000 ESD

ROUND RODS, PRESSED AND TURNED

Diameters (mm)	Tolerances on the diameters (mm)	TIVAR® 1000 ESD black			
		Standard length per piece : 1000 mm ⁽¹⁾ , 2000 mm ⁽²⁾		kg / 1000 mm ⁽³⁾	kg / 2000 mm ⁽³⁾
		kg / 1000 mm ⁽³⁾	kg / 2000 mm ⁽³⁾		
20	+0,0 +1,0	0,3	■	0,6	■
25		0,5	■	1,0	■
30		0,7	■	1,4	■
35		0,9	■	1,9	■
40		1,2	■	2,5	■
45		1,5	■	3,1	■
50		1,9	■	3,8	■
55		2,3	■	4,6	■
60		2,7	■	5,5	■
70		3,7	■	7,4	■
80		4,8	■	9,7	■
90		6,1	■	12,2	■
100		7,6	■	15,1	■
110		9,1	■	18,2	-
120		10,9	■	21,7	-
125		11,8	□	23,5	-
130	+0,0 +2,0	12,7	■	25,4	-
140		14,8	■	29,5	-
150		16,9	■	33,8	-
160		19,3	□	38,5	-
170		21,7	□	43,4	-
180		24,4	□	48,7	-
190		27,1	□	54,2	-
200		30,1	■	60,1	-
210		33,1	□	66,2	-
220		36,4	□	72,6	-
230		39,7	□	79,4	-
240		43,3	□	86,4	-
250	-	-	-	-	-

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) tolerances on the length +5/+7 mm

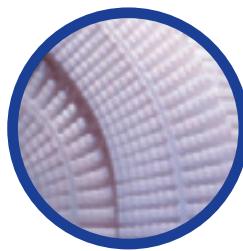
(2) tolerances on the length +15/+17 mm

(3) average production weight

>> HIGH MOLECULAR WEIGHT POLYETHYLENE [PE-HMW]

PE 500

In less demanding applications with respect to wear and impact resistance, PE 500 may present an economical alternative for the TIVAR® standard grades. It is a versatile polyethylene grade used mainly in the food industry (meat and fish processing) but it is also employed in all kinds of mechanical, chemical and electrical applications.



PE 500 natural

PLATES

Thicknesses (mm)	Tolerances on the thickness (mm)	PE 500 natural			
		Standard sizes per piece (mm) ⁽³⁾ :			
		1010 x 2020 kg / pce ⁽¹⁾	1220 x 2020 kg / pce ⁽¹⁾	1220 x 3050 kg / pce ⁽¹⁾	2020 x 6150 kg / pce ⁽¹⁾
8	-0,3 +0,3 0 +0,4 ⁽²⁾	16,5 ■	20,3 ■	30,5 □	101,0 □ ⁽⁴⁾
10		20,6 ■	25,3 ■	38,0 ■	125,6 □
12		24,7 ■	30,2 ■	45,4 ■	150,2 □
15		30,9 ■	37,7 ■	56,6 ■	187,2 □
20		41,2 ■	50,1 ■	75,2 ■	248,8 □
25		51,4 ■	62,5 ■	93,9 ■	310,3 □
30		61,7 ■	74,9 ■	112,5 ■	371,9 □
35		72,0 □	87,3 ■	131,1 □	433,5 □
40		82,3 ■	99,7 ■	149,7 ■	495,1 □
45		92,6 □	112,1 ■	168,4 □	556,6 □
50		102,9 ■	124,5 ■	187,0 □	618,2 □
60		123,5 ■	149,2 ■	224,2 □	741,3 □
70		144,0 ■	174,0 ■	261,5 □	864,5 □
80		164,6 ■	199,1 ■	299,1 □	988,9 □
90		185,2 □	223,9 ■	336,3 □	- -
100		205,8 ■	248,7 ■	373,6 □	- -
110		226,3 □	273,4 □	410,8 □	- -
120		246,9 □	298,2 □	- -	- -
130		267,5 □	323,0 □	- -	- -
140		288,1 □	347,8 □	- -	- -
150		- -	372,6 □	- -	- -

PE 300 and PE 500 extruded plates are available upon request.

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weights

(2) size 2020 x 1010 mm, thicknesses 10 - 70 mm: tolerance on thickness -0,2 / +0,2 mm

size 2020 x 1010 mm, thicknesses 80 - 150 mm: tolerance on thickness -0,3 / +0,3 mm

(3) tolerances on widths and lengths (mm) for all dimensions: width 0 / +30

length 0 / +60

(4) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

PE 500 green

PLATES

Thicknesses (mm)	Tolerances on the thickness ⁽²⁾ (mm)	PE 500 green			
		Standard sizes per piece (mm) ⁽³⁾ :			
		1010 x 2020 kg / pce ⁽¹⁾	1220 x 2020 kg / pce ⁽¹⁾	1220 x 3050 kg / pce ⁽¹⁾	2020 x 6150 kg / pce ⁽¹⁾
8	0 +0,4 ⁽²⁾	16,5 □	20,3 ■	30,5 □	101,0 □ ⁽⁴⁾
10		20,6 □	25,3 ■	38,0 □	125,6 □
12		24,7 □	30,2 ■	45,4 □	150,2 □
15		30,9 □	37,7 ■	56,6 □	187,2 □
20		41,2 □	50,1 ■	75,2 □	248,8 □
25		51,4 □	62,5 ■	93,9 □	310,3 □
30		61,7 □	74,9 ■	112,5 □	371,9 □
35		72,0 □	87,3 ■	131,1 □	433,5 □
40		82,3 □	99,7 ■	149,7 □	495,1 □
45		92,6 □	112,1 ■	168,4 □	556,6 □
50		102,9 □	124,5 ■	187,0 □	618,2 □
60		123,5 □	149,2 ■	224,2 □	741,3 □
70		144,0 □	174,0 □	261,5 □	864,5 □
80	0 +0,6 ⁽²⁾	164,6 □	199,1 □	299,1 □	988,9 □
90		185,2 □	223,9 □	336,3 □	- -
100		205,8 □	248,7 □	373,6 □	- -
110		226,3 □	273,4 □	410,8 □	- -
120		246,9 □	298,2 □	- -	- -
130		267,5 □	323,0 □	- -	- -
140		288,1 □	347,8 □	- -	- -
150		- -	372,6 □	- -	- -

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weights

(2) size 2020 x 1010 mm, thicknesses 10 - 70 mm: tolerance on thickness -0,2 / + 0,2 mm

size 2020 x 1010 mm, thicknesses 80 - 150 mm: tolerance on thickness -0,3 / + 0,3 mm

(3) tolerances on widths and lengths (mm) for all dimensions: width 0 / +30

length 0 / +60

(4) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

PE 500 black

PLATES

Thicknesses (mm)	Tolerances on the thickness ⁽²⁾ 0 +0,4 ⁽²⁾	PE 500 black			
		Standard sizes per piece (mm) ⁽³⁾ :			
		1010 x 2020 kg / pce ⁽¹⁾	1220 x 2020 kg / pce ⁽¹⁾	1220 x 3050 kg / pce ⁽¹⁾	2020 x 6150 kg / pce ⁽¹⁾
8	-0,2 +0,2	16,5 □	20,3 ■	30,5 □	101,0 □ ⁽⁴⁾
10	0 +0,4 ⁽²⁾	20,6 ■	25,3 ■	38,0 □	125,6 □
12		24,7 ■	30,2 ■	45,4 □	150,2 □
15		30,9 ■	37,7 ■	56,6 □	187,2 □
20		41,2 ■	50,1 ■	75,2 □	248,8 □
25		51,4 ■	62,5 ■	93,9 □	310,3 □
30		61,7 ■	74,9 ■	112,5 □	371,9 □
35		72,0 □	87,3 ■	131,1 □	433,5 □
40		82,3 ■	99,7 ■	149,7 □	495,1 □
45		92,6 □	112,1 ■	168,4 □	556,6 □
50		102,9 □	124,5 ■	187,0 □	618,2 □
60		123,5 □	149,2 ■	224,2 □	741,3 □
70		144,0 □	174,0 □	261,5 □	864,5 □
80	0 +0,6 ⁽²⁾	164,6 □	199,1 □	299,1 □	988,9 □
90		185,2 □	223,9 □	336,3 □	- -
100		205,8 □	248,7 □	373,6 □	- -
110		226,3 □	273,4 □	410,8 □	- -
120		246,9 □	298,2 □	- -	- -
130		267,5 □	323,0 □	- -	- -
140		288,1 □	347,8 □	- -	- -
150		- -	372,6 □	- -	- -

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weights

(2) size 2020 x 1010 mm, thicknesses 10 - 70 mm: tolerance on thickness -0,2 / + 0,2 mm

size 2020 x 1010 mm, thicknesses 80 - 150 mm: tolerance on thickness -0,3 / + 0,3 mm

(3) tolerances on widths and lengths (mm) for all dimensions: width 0 / +30

length 0 / +60

(4) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

PE 500 other colours

PLATES

Thicknesses (mm)	Tolerances on the thickness ⁽²⁾ (mm)	PE 500 colours			
		Standard sizes per piece (mm) ⁽³⁾ :			
		1010 x 2020 kg / pce ⁽¹⁾	1220 x 2020 kg / pce ⁽¹⁾	1220 x 3050 kg / pce ⁽¹⁾	2020 x 6150 kg / pce ⁽¹⁾
8		16,5 □	20,3 □	30,5 □	101,0 □ ⁽⁴⁾
10		20,6 □	25,3 □	38,0 □	125,6 □
12		24,7 □	30,2 □	45,4 □	150,2 □
15		30,9 □	37,7 □	56,6 □	187,2 □
20		41,2 □	50,1 □	75,2 □	248,8 □
25		51,4 □	62,5 □	93,9 □	310,3 □
30		61,7 □	74,9 □	112,5 □	371,9 □
35		72,0 □	87,3 □	131,1 □	433,5 □
40		82,3 □	99,7 □	149,7 □	495,1 □
45		92,6 □	112,1 □	168,4 □	556,6 □
50		102,9 □	124,5 □	187,0 □	618,2 □
60		123,5 □	149,2 □	224,2 □	741,3 □
70		144,0 □	174,0 □	261,5 □	864,5 □
80		164,6 □	199,1 □	299,1 □	988,9 □
90		185,2 □	223,9 □	336,3 □	- -
100		205,8 □	248,7 □	373,6 □	- -
110		226,3 □	273,4 □	410,8 □	- -
120		246,9 □	298,2 □	- -	- -
130		267,5 □	323,0 □	- -	- -
140		288,1 □	347,8 □	- -	- -
150		- -	372,6 □	- -	- -

COLOURS AVAILABLE:

PE 500 blue
 PE 500 sky-blue
 PE 500 yellow
 PE 500 red

PE 500 orange
 PE 500 grey
 PE 500 red-brown

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)
 □ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weights

(2) size 2020 x 1010 mm, thicknesses 10 - 70 mm: tolerance on thickness -0,2 / + 0,2 mm
 size 2020 x 1010 mm, thicknesses 80 - 150 mm: tolerance on thickness -0,3 / + 0,3 mm

(3) tolerances on widths and lengths (mm) for all dimensions: width 0 / +30
 length 0 / +60

(4) available in unplanned quality only, tolerances differ from indication given in this table

Please note that this material is also available in further dimensions and thicknesses. Please consult us concerning production capabilities and minimum order quantities.

PE 500 natural

ROUND RODS, EXTRUDED

Diameters (mm)	Tolerances on the diameters (mm)	PE 500 natural			
		Standard length per piece : 1000 mm ⁽²⁾ , 2000 mm ⁽²⁾			
		kg / 1000 mm ⁽¹⁾	kg / 2000 mm ⁽¹⁾		
20	-	-	-	-	-
25	-	-	-	-	-
30	+0,2 +1,2	0,7	■	1,5	■
35	-	-	-	-	-
40	+0,2 +1,5	1,3	■	2,6	■
45	-	-	-	-	-
50	+0,3 +2,0	2,1	■	4,0	■
55	-	-	-	-	-
60	+0,3 +2,3	3,0	■	5,8	■
70	+0,3 +2,5	4,1	■	7,9	■
80	+0,4 +3,0	5,3	■	10,3	■
90	+0,5 +3,4	6,7	■	13,1	■
100	+0,6 +3,8	8,3	■	16,2	■
110	-	-	-	-	-
120	+0,8 +4,6	12,0	■	23,3	■
125	-	-	-	-	-
130	-	-	-	-	-
140	+0,9 +5,4	16,3	■	31,7	■
150	+1,0 +5,8	18,7	■	36,4	■
160	+1,1 +6,3	21,3	■	41,4	■
170	-	-	-	-	-
180	-	-	-	-	-
190	-	-	-	-	-
200	+1,3 +8,5	33,3	□	64,6	□
210	-	-	-	-	-
220		-	-	-	-
230		-	-	-	-
240		-	-	-	-
250		-	-	-	-

■ : standard item (generally available from stock: large quantities may have to be manufactured to order)

□ : non-standard item (generally not available from stock but manufactured to order and subject to special conditions)

(1) average production weight

(2) tolerances on the length 0 /+60 mm

NOTES



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