# **PU Linear T10 Steel NTB**

Article code: TBPU000030



General information	
Productgroup	Timing belts, PU Linear
Industry segment	General industry; Container & packaging; Wood: Panel board
Main product feature	Low friction back side, Low friction tooth side, Positive drive, Wear resistant

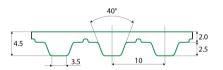
Belt construction		
Tension member		steel
Material	body	Polyurethane
Surface	tooth side	Polyamide fabric
	back side	Polyamide fabric

Characteristics			
Food Grade (FG)	no		
Antistatic (AS)	no		
Oil & Fat resistance	yes		

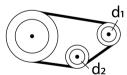
Technical data						
Tooth	profile		T10			
	pitch		10	mm	0.39	in.
Hardness body material	ISO 868		92A	Shore		
Belt thickness	total		4.5	mm	0.18	in.
Belt weight			4.5	kg/m²	0.92	lbs/ft²
Coefficient of friction	tooth side to steel	dynamic	0,3			
Operating temperature	continuous	from / to	-10 / 80	°C	14 / 176	°F
Minimum pulley diameter	A) without counter flexing	number of teeth, t1	12			
		d1	36.35	mm	1.43	in.
		d2	60	mm	2.36	in.
	B) with counter flexing	number of teeth, t1	20			
		d1	61.81	mm	2.43	in.
		d2	60	mm	2.36	in.
Belt width	maximum		150	mm	5.91	in.
Endless length	minimum		500	mm	19.69	in.
Manufacturing length	standard		100000	mm	328.08	ft.

#### Reference images

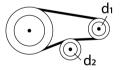
#### Side view



## A) without counter flexing



## B) with counter flexing



# **Fabrication**

This information on the fabrication options is general, please contact Ammeraal Beltech for the specific fabrication possibilities of the timing belt of your choice.

Open end, prepared splice, spliced endless with mechanical fastener or a pin joint fastener.

Cleats welded or mechanically attached, metal teeth, guides welded or glued.

Covers can be welded, glued, coated or vulkanized onto the back side of the timing belt.

Thermoplastic covers can be embossed. Perforations, lateral and logitudinal slots, lateral and longitudinal profiles.

#### **Additional Information**

Tooth profile according to standard: metric ISO 17396, imperial ISO 5296-1, curvilinear ISO 13050, depending on the belt type.

This sheet contains typical values, which apply to a temperature of approx. 20 °C (68 °F), unless otherwise stated, individual data may differ. Consult our specialists for further information like technical calculations. Instructions regarding joining, storage & maintenance and tracking & tensioning.

Standard belt width [mm]	Allow. tensile load Linear open end & Torque [N]	Allow. tensile load Linear welded endless [N]	Spring force [N]
10	840	420	220000
16	1000	500	385000
25	2200	1100	632500
32	2620	1310	825000
50	4200	2100	1320000
75	5100	2550	1980000
100.1	7100	3550	2695000

[N/mm]       0     5.18     0       25     5     0.021       50     4.855     0.04       75     4.7     0.059       100     4.611     0.077       150     4.443     0.111       200     4.275     0.143       300     4.028     0.201       400     3.836     0.256       500     3.68     0.307       750     3.43     0.429       1000     3.163     0.527       1250     2.992     0.623       1500     2.844     0.711       1750     2.724     0.795       2000     2.612     0.871       3000     2.278     1.139			
25   5   0.021     50   4.855   0.04     75   4.7   0.059     100   4.611   0.077     150   4.443   0.111     200   4.275   0.143     300   4.028   0.201     400   3.836   0.256     500   3.68   0.307     750   3.43   0.429     1000   3.163   0.527     1250   2.992   0.623     1500   2.844   0.711     1750   2.724   0.795     2000   2.612   0.871     3000   2.278   1.139	Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]
50   4.855   0.04     75   4.7   0.059     100   4.611   0.077     150   4.443   0.111     200   4.275   0.143     300   4.028   0.201     400   3.836   0.256     500   3.68   0.307     750   3.43   0.429     1000   3.163   0.527     1250   2.992   0.623     1500   2.844   0.711     1750   2.724   0.795     2000   2.612   0.871     3000   2.278   1.139	0	5.18	0
75   4.7   0.059     100   4.611   0.077     150   4.443   0.111     200   4.275   0.143     300   4.028   0.201     400   3.836   0.256     500   3.68   0.307     750   3.43   0.429     1000   3.163   0.527     1250   2.992   0.623     1500   2.844   0.711     1750   2.724   0.795     2000   2.612   0.871     3000   2.278   1.139	25	5	0.021
100   4.611   0.077     150   4.443   0.111     200   4.275   0.143     300   4.028   0.201     400   3.836   0.256     500   3.68   0.307     750   3.43   0.429     1000   3.163   0.527     1250   2.992   0.623     1500   2.844   0.711     1750   2.724   0.795     2000   2.612   0.871     3000   2.278   1.139	50	4.855	0.04
150   4.443   0.111     200   4.275   0.143     300   4.028   0.201     400   3.836   0.256     500   3.68   0.307     750   3.43   0.429     1000   3.163   0.527     1250   2.992   0.623     1500   2.844   0.711     1750   2.724   0.795     2000   2.612   0.871     3000   2.278   1.139	75	4.7	0.059
200   4.275   0.143     300   4.028   0.201     400   3.836   0.256     500   3.68   0.307     750   3.43   0.429     1000   3.163   0.527     1250   2.992   0.623     1500   2.844   0.711     1750   2.724   0.795     2000   2.612   0.871     3000   2.278   1.139	100	4.611	0.077
300   4.028   0.201     400   3.836   0.256     500   3.68   0.307     750   3.43   0.429     1000   3.163   0.527     1250   2.992   0.623     1500   2.844   0.711     1750   2.724   0.795     2000   2.612   0.871     3000   2.278   1.139	150	4.443	0.111
400 3.836 0.256   500 3.68 0.307   750 3.43 0.429   1000 3.163 0.527   1250 2.992 0.623   1500 2.844 0.711   1750 2.724 0.795   2000 2.612 0.871   3000 2.278 1.139	200	4.275	0.143
500   3.68   0.307     750   3.43   0.429     1000   3.163   0.527     1250   2.992   0.623     1500   2.844   0.711     1750   2.724   0.795     2000   2.612   0.871     3000   2.278   1.139	300	4.028	0.201
750 3.43 0.429   1000 3.163 0.527   1250 2.992 0.623   1500 2.844 0.711   1750 2.724 0.795   2000 2.612 0.871   3000 2.278 1.139	400	3.836	0.256
1000 3.163 0.527   1250 2.992 0.623   1500 2.844 0.711   1750 2.724 0.795   2000 2.612 0.871   3000 2.278 1.139	500	3.68	0.307
1250 2.992 0.623   1500 2.844 0.711   1750 2.724 0.795   2000 2.612 0.871   3000 2.278 1.139	750	3.43	0.429
1500 2.844 0.711   1750 2.724 0.795   2000 2.612 0.871   3000 2.278 1.139	1000	3.163	0.527
1750 2.724 0.795   2000 2.612 0.871   3000 2.278 1.139	1250	2.992	0.623
2000 2.612 0.871   3000 2.278 1.139	1500	2.844	0.711
3000 2.278 1.139	1750	2.724	0.795
	2000	2.612	0.871
4000 2.039 1.359	3000	2.278	1.139
	4000	2.039	1.359

Standard

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