

# PU Linear T5 Steel NB

Article code: TBPU000007

## General information

<b>Productgroup</b>	Timing belts, PU Linear
<b>Industry segment</b>	General industry; Container & packaging; Paper & print
<b>Main product feature</b>	Low friction back side, Positive drive, Wear resistant

## Belt construction

<b>Tension member</b>		steel
<b>Material</b>	<b>body</b>	Polyurethane
<b>Surface</b>	<b>tooth side</b>	Polyurethane
	<b>back side</b>	Polyamide fabric

## Characteristics

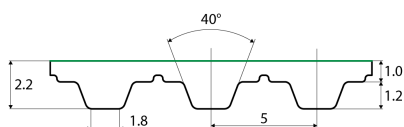
<b>Food Grade (FG)</b>	no
<b>Antistatic (AS)</b>	no
<b>Oil &amp; Fat resistance</b>	yes

## Technical data

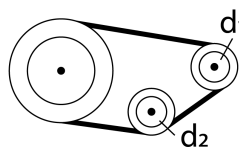
<b>Tooth</b>	profile		T5	
	pitch		5 mm	0.2 in.
<b>Hardness body material</b>	ISO 868		92A Shore	
<b>Belt thickness</b>	total		2.3 mm	0.09 in.
<b>Belt weight</b>			2.1 kg/m <sup>2</sup>	0.43 lbs/ft <sup>2</sup>
<b>Coefficient of friction</b>	tooth side to steel	dynamic	0,5	
<b>Operating temperature</b>	continuous	from / to	-10 / 80 °C	14 / 176 °F
<b>Minimum pulley diameter</b>	A) without counter flexing	number of teeth, t1	10	
		d1	15.05 mm	0.59 in.
		d2	30 mm	1.18 in.
	B) with counter flexing	number of teeth, t1	15	
		d1	23.05 mm	0.91 in.
		d2	30 mm	1.18 in.
<b>Belt width</b>	maximum		150 mm	5.91 in.
<b>Endless length</b>	minimum		500 mm	19.69 in.
<b>Manufacturing length</b>	standard		100000 mm	328.08 ft.

## Reference images

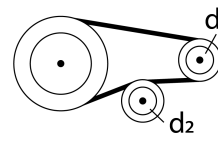
### Side view



### 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 longitudinal 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	390	195	90000
16	550	275	142500
25	910	455	225000
32	1100	550	285000
50	1690	845	450000
75	2400	1200	675000
100.1	3200	1600	900000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]
0	2.452	0
25	2.36	0.005
50	2.274	0.009
75	2.23	0.014
100	2.175	0.018
150	2.105	0.026
200	2.05	0.034
300	1.955	0.049
400	1.867	0.062
500	1.815	0.076
750	1.697	0.106
1000	1.626	0.136
1250	1.56	0.163
1500	1.5	0.188
1750	1.448	0.211
2000	1.403	0.234
3000	1.265	0.316
4000	1.166	0.389

Standard