

# PU Linear L Aramid NT

Article code: TBPU000111

## General information

<b>Productgroup</b>	Timing belts, PU Linear
<b>Industry segment</b>	General industry; Wood; Building materials: Stone & ceramics, Bricks & tiles
<b>Main product feature</b>	Low friction tooth side, Low noise, Positive drive, Wear resistant

## Belt construction

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

## Characteristics

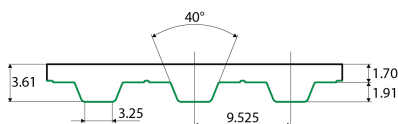
<b>Food Grade (FG)</b>	no
<b>Antistatic (AS)</b>	no
<b>Oil &amp; Fat resistance</b>	yes

## Technical data

<b>Tooth</b>	profile		L	
	pitch		9.525 mm	0.37 in.
<b>Hardness body material</b>	ISO 868		92A Shore	
<b>Belt thickness</b>	total		3.6 mm	0.14 in.
<b>Belt weight</b>			3.6 kg/m <sup>2</sup>	0.74 lbs/ft <sup>2</sup>
<b>Coefficient of friction</b>	tooth side to steel	dynamic	0,3	
<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	15	
		d1	44.72 mm	1.76 in.
		d2	50 mm	1.97 in.
	B) with counter flexing	number of teeth, t1	20	
		d1	59.88 mm	2.36 in.
		d2	50 mm	1.97 in.
<b>Belt width</b>	maximum		101.6 mm	4 in.
<b>Endless length</b>	minimum		500 mm	19.69 in.
<b>Manufacturing length</b>	standard		100000 mm	328.08 ft.

## Reference images

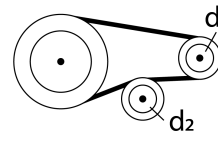
### Side view



### 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]
12.7	830	415	157500
19.1	1250	325	283500
25.4	1660	830	378000
38.1	2480	1240	567000
50.8	3320	1660	756000
76.2	4960	2480	1161000
101.61	6640	3320	1539000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]
0	3.86	0
25	3.655	0.015
50	3.57	0.028
75	3.492	0.042
100	3.407	0.054
150	3.283	0.078
200	3.159	0.1
300	2.979	0.142
400	2.839	0.18
500	2.725	0.216
750	2.507	0.298
1000	2.344	0.372
1250	2.214	0.439
1500	2.107	0.502
1750	2.015	0.56
2000	1.935	0.614
3000	1.688	0.804
4000	1.509	0.958

Standard