Technical datasheet

PU Linear L Steel NT

Article code: TBPU000107



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

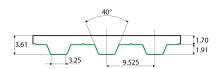
Belt construction		
Tension member		steel
Material	body	Polyurethane
Surface	tooth side	Polyamide fabric
	back side	Polyurethane

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

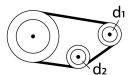
Technical data						
Tooth	profile		L			
	pitch		9.525	mm	0.37	in.
Hardness body material	ISO 868		92A	Shore		
Belt thickness	total		3.6	mm	0.14	in.
Belt weight			3.9	kg/m²	0.8	lbs/ft²
Coefficient of friction	tooth side to steel	dynamic	0,3			
Operating temperature	continuous	from / to	-10 / 80	°C	14 / 176	°F
Minimum pulley diameter	A) without counter flexing	number of teeth, t1	15			
		d1	44.72	mm	1.76	in.
		d2	60	mm	2.36	in.
	B) with counter flexing	number of teeth, t1	20			
		d1	59.88	mm	2.36	in.
		d2	60	mm	2.36	in.
Belt width	maximum		101.6	mm	4	in.
Endless length	minimum		500	mm	19.69	in.
Manufacturing length	standard		100000	mm	328.08	ft.

Reference images

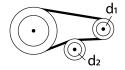
Side view



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]
12.7	890	445	175000
19.1	1340	670	315000
25.4	1780	890	420000
38.1	2670	1335	630000
50.8	3560	1780	840000
76.2	5340	2670	1290000
101.61	7120	3560	1710000

[N/mm] 0 3.86 0 25 3.655 0.015 50 3.575 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			
25 3.655 0.015 50 3.575 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	Speed rpm [1/min]		Specific power [W/mm]
50 3.575 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	0	3.86	0
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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	75	3.492	0.042
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	100	3.407	0.054
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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	200	3.159	0.1
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	300	2.979	0.142
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	400	2.839	0.18
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1500 2.107 0.502 1750 2.015 0.56 2000 1.935 0.614 3000 1.688 0.804	1000	2.344	0.372
1750 2.015 0.56 2000 1.935 0.614 3000 1.688 0.804	1250	2.214	0.439
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3000 1.688 0.804	1750	2.015	0.56
	2000	1.935	0.614
4000 1.509 0.958	3000	1.688	0.804
	4000	1.509	0.958

Standard