Technical datasheet

PU Linear L Steel NTB

Article code: TBPU000109

General information

Productgroup	Timing belts, PU Linear
Industry segment	General industry; Wood; Building materials: Stone & ceramics, Bricks & tiles
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

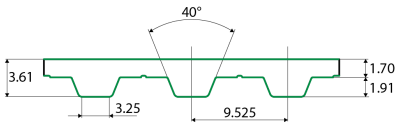
Food Grade (FG)	no
Antistatic (AS)	no
Oil & Fat resistance	yes

Technical data

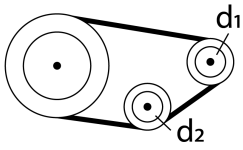
Tooth	profile		L			
	pitch		9.525	mm	0.37	in.
Hardness body material	ISO 868		92A	Shore		
Belt thickness	total		3.6	mm	0.14	in.
Belt weight			3.9	kg/m²	0.8	lbs/ft²
Coefficient of friction	tooth side to steel	dynamic	0,3			
Operating temperature	continuous	from / to	-10 / 80	°C	14 / 176	°F
Minimum pulley 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

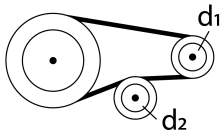
Side view



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

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/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	
4000	1.509	0.958	

Standard