

PU Linear T10 Aramid NB

Article code: TBPU000040

General information

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

Belt construction

Tension member		aramid
Material	body	Polyurethane
Surface	tooth side	Polyurethane
	back side	Polyamide fabric

Characteristics

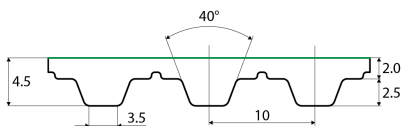
Food Grade (FG)	no
Antistatic (AS)	no
Oil & Fat resistance	yes

Technical data

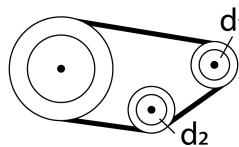
Tooth	profile		T10	
	pitch		10 mm	0.39 in.
Hardness body material	ISO 868		92A Shore	
Belt thickness	total		4.5 mm	0.18 in.
Belt weight			4 kg/m ²	0.82 lbs/ft ²
Coefficient of friction	tooth side to steel	dynamic	0,5	
Operating temperature	continuous	from / to	-10 / 80 °C	14 / 176 °F
Minimum pulley diameter	A) without counter flexing	number of teeth, t1	12	
		d1	36.35 mm	1.43 in.
		d2	50 mm	1.97 in.
	B) with counter flexing	number of teeth, t1	20	
		d1	61.81 mm	2.43 in.
		d2	50 mm	1.97 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

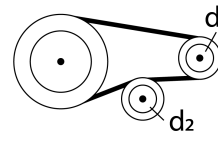
Side view



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 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	700	350	145000
16	1000	500	235000
25	1750	875	392000
32	2350	1175	507000
50	3970	1985	861000
75	4900	2450	1332000
100.1	6700	3350	1776000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/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
4000	2.039	1.359

Standard