Technical datasheet

PU Linear H Aramid NT

Article code: TBPU000118

General information

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

Belt construction

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

Characteristics

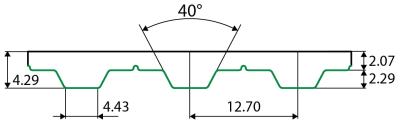
Food Grade (FG)	no
Antistatic (AS)	no
Oil & Fat resistance	yes

Technical data

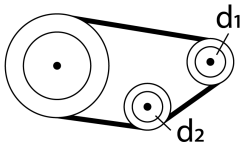
Tooth	profile		H			
	pitch		12.7	mm	0.5	in.
Hardness body material	ISO 868		92A	Shore		
Belt thickness	total		4.3	mm	0.17	in.
Belt weight			3.5	kg/m²	0.72	lbs/ft²
Coefficient of friction	tooth side to steel	dynamic	0,3			
Operating temperature	continuous	from / to	-10 / 80	°C	14 / 176	°F
Minimum pulley diameter	A) without counter flexing	number of teeth, t1	14			
		d1	55.23	mm	2.17	in.
		d2	50	mm	1.97	in.
	B) with counter flexing	number of teeth, t1	20			
		d1	79.48	mm	3.13	in.
		d2	65	mm	2.56	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

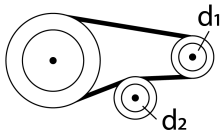
Side view



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	830	415		175000
19.1	1250	625		280000
25.4	1650	825		385000
38.1	2480	1240		580000
50.8	330	1650		768000
76.2	4900	2450		1180000
101.61	6300	3150		1570000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]	
0	4.53	0	
25	4.352	0.023	
50	4.235	0.045	
75	4.104	0.065	
100	4.011	0.085	
150	3.845	0.122	
200	3.722	0.158	
300	3.507	0.223	
400	3.341	0.283	
500	3.205	0.339	
750	2.952	0.469	
1000	2.755	0.583	
1250	2.603	0.689	
1500	2.477	0.786	
1750	2.369	0.878	
2000	2.274	0.963	
3000	1.984	1.26	
4000	1.775	1.503	

Standard

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