Technical datasheet

PU Linear T2.5 Steel

Article code: TBPU000001

General information

Productgroup	Timing belts, PU Linear
Industry segment	General industry; Container & packaging; Paper & print
Main product feature	Energy saving, Positive drive, Thermoplastic, Abrasion resistant

Belt construction

Tension member		steel
Material	**body**	Polyurethane
Surface	**tooth side**	Polyurethane
	back side	Polyurethane

Characteristics

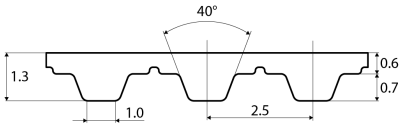
Food Grade (FG)	no	
Antistatic (AS)	no	
Oil & Fat resistance	yes	good

Technical data

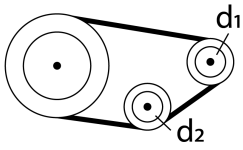
Tooth	profile		T2.5			
	pitch		2.5	mm	0.1	in.
Hardness body material	ISO 868		92A	Shore		
Belt thickness	total		1.3	mm	0.05	in.
Belt weight			1.1	kg/m²	0.23	lbs/ft²
Coefficient of friction	tooth side to steel	dynamic	0,5			
Operating temperature	continuous	from / to	-10 / 80	°C	14 / 176	°F
Minimum pulley diameter	A) without counter flexing	number of teeth, t1	10			
		d1	15.05	mm	0.59	in.
		d2	30	mm	1.18	in.
	B) with counter flexing	number of teeth, t1	15			
		d1	23.05	mm	0.91	in.
		d2	30	mm	1.18	in.
Belt width	maximum		50	mm	1.97	in.
Endless length	minimum		500	mm	19.69	in.
Manufacturing length	standard		100000	mm	328.08	ft.

Reference images

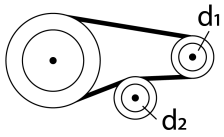
Side view



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]
4	120	60		30000
6	180	90		45000
10	240	120		69000
20	540	270		135000
25	720	360		170000
32	860	430		231000
50.1	1440	720		360000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]	
0	1.235	0	
25	1.18	0.002	
50	1.137	0.005	
75	1.138	0.007	
100	1.114	0.009	
150	1.069	0.013	
200	1.045	0.017	
300	0.995	0.025	
400	0.955	0.032	
500	0.923	0.038	
750	0.86	0.054	
1000	0.816	0.068	
1250	0.779	0.081	
1500	0.75	0.094	
1750	0.724	0.106	
2000	0.702	0.117	
3000	0.633	0.158	
4000	0.583	0.194	

Standard