Technical datasheet

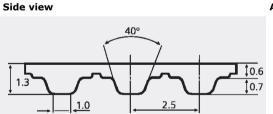
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Article code: TBPU000270

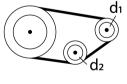


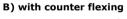
General information							
Productgroup	Timing belts, PU	Linear					
Industry segment	General industry	; Container & pa	ackaging; Paper & print				
Main product feature	Energy saving, P	ositive drive, Th	ermoplastic, Abrasion resistar	nt			
Belt construction							
Tension member		steel					
Material	body	Polyurethar	e				
Surface	tooth side	Polyurethar	e				
	back side	Polyurethar	e				
Characteristics							
Food Grade (FG)	no						
Antistatic (AS)	no						
Oil & Fat resistance	yes						
Technical data							
Tooth	profile			T2.5			
	pitch			2.5	mm	0.1	in.
Hardness body material	ISO 868			92A	Shore		
Belt thickness	total			2.2	mm	0.09	in.
Belt weight				1.1	kg/m²	0.23	lbs/ft²
Coefficient of friction	tooth side to stee	el	dynamic	0,5			
			static	0,6			
Operating temperature	continuous		from / to	-10 / 80	°C	14 / 176	°F
Minimum pulley diameter	A) without count	er flexing	number of teeth, t1	10			
			d1	23.05	mm	0.91	in.
			d2	30	mm	1.18	in.
	B) with counter f	lexing	number of teeth, t1	15			
			d1	15.05	mm	0.59	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.

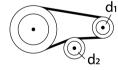
Reference images











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	Specific power [W/mm]
	[N/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

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