Technical datasheet

PU Linear T20 Steel

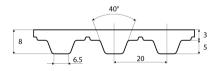
Article code: TBPU000046



General information							
Productgroup	Timing belts, PU Li	near					
Industry segment	General industry; V	Vood; Buildin	g materials: Stone & ceramic	cs, Bricks & tiles			
Main product feature	Energy saving, Pos	itive drive, Th	nermoplastic, Abrasion resist	ant			
Belt construction							
Tension member		steel					
Material	body	Polyurethar	ne				
Surface	tooth side	Polyurethar	ne				
	back side	Polyurethar	ne				
Characteristics							
Food Grade (FG)	no						
Antistatic (AS)	no						
Oil & Fat resistance	yes						
Technical data							
Tooth	profile			T20			
	pitch				mm	0.79	in.
Hardness body material	ISO 868				Shore		
Belt thickness	total			-	mm	0.31	
Belt weight					kg/m²	1.58	lbs/ft²
Coefficient of friction	tooth side to steel		dynamic	0,5		14 / 170	05
Operating temperature	continuous	flowing	from / to	-10 / 80 15	ະບ	14 / 176	۴
Minimum pulley diameter	A) without counter	nexing	number of teeth, t1 d1	92.64	mm	3.65	in
			d1 d2		mm	4.72	
	B) with counter flex	kina	number of teeth, t1	25		7.72	
	b) mar counter ne		d1	156.32	mm	6.15	in.
			d2	120		4.72	
Belt width	maximum			150	mm	5.91	in.
Endless length	minimum			1200	mm	47.24	in.
Manufacturing length	standard			100000	mm	328.08	ft.

Reference images

Side view

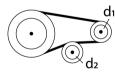


A) without counter flexing

dı

d۶

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]
25	3200	1600	870000
32	4100	2050	1130000
50	6500	3250	1760000
75	9800	4900	2630000
100	13500	6750	3500000
150.1	20000	10000	500000

[N/mm] 0 10.45 0 25 10 0.083 50 9.69 0.161 75 9.35 0.234 100 9.14 0.305 150 8.74 0.437 200 8.35 0.557 300 7.78 0.778 400 7.34 0.979 500 6.633 1.158 750 6.633 1.183 1000 5.83 2.246 150 5.55 1.555 1750 4.84 2.823 2000 4.84 3.84			
25 10 0.083 50 9.69 0.161 75 9.35 0.234 100 9.14 0.305 150 8.74 0.437 200 8.35 0.557 300 7.78 0.778 400 7.34 0.979 500 6.95 1.158 750 6.33 1.433 1000 5.39 2.246 1500 5.39 2.245 1500 5.39 2.246 1500 5.31 2.555 1750 4.84 2.823 2000 4.59 3.06	Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]
50 9.69 0.161 75 9.35 0.234 100 9.14 0.305 150 8.74 0.437 200 8.35 0.557 300 7.78 0.778 400 7.34 0.979 500 6.95 1.158 750 6.33 1.183 1000 5.83 1.943 1250 5.51 2.555 1750 4.84 2.823 2000 4.59 3.06	0	10.45	0
75 9.35 0.234 100 9.14 0.305 150 8.74 0.437 200 8.35 0.557 300 7.78 0.778 400 7.34 0.979 500 6.95 1.158 750 6.33 1.183 1000 5.83 2.246 1500 5.11 2.555 1750 4.84 2.823 2000 4.59 3.06	25	10	0.083
1009.140.3051508.740.4372008.350.5573007.780.7784007.340.9795006.951.1587506.331.18310005.831.94312505.112.55517504.842.82320004.593.0630003.843.84	50	9.69	0.161
150 8.74 0.437 200 8.35 0.557 300 7.78 0.778 400 7.34 0.979 500 6.95 1.158 750 6.33 1.943 1000 5.83 1.943 1250 5.39 2.246 1500 5.11 2.555 1750 4.84 2.823 2000 4.59 3.06	75	9.35	0.234
200 8.35 0.57 300 7.78 0.778 400 7.34 0.979 500 6.95 1.158 750 6.33 1.183 1000 5.83 1.943 1250 5.39 2.246 1500 5.11 2.555 1750 4.84 2.823 2000 4.59 3.06 3000 3.84 3.84	100	9.14	0.305
300 7.78 0.778 400 7.34 0.979 500 6.95 1.158 750 6.33 1.833 1000 5.83 1.943 1250 5.39 2.246 1500 5.11 2.555 1750 4.84 2.823 2000 4.59 3.06	150	8.74	0.437
4007.340.9795006.951.1587506.331.18310005.831.94312505.392.24615005.112.55517504.842.82320004.593.0630003.843.84	200	8.35	0.557
5006.951.1587506.331.18310005.831.94312505.392.24615005.112.55517504.842.82320004.593.0630003.843.84	300	7.78	0.778
750 6.33 1.183 1000 5.83 1.943 1250 5.39 2.246 1500 5.11 2.555 1750 4.84 2.823 2000 4.59 3.06 3000 3.84 3.84	400	7.34	0.979
1000 5.83 1.943 1250 5.39 2.246 1500 5.11 2.555 1750 4.84 2.823 2000 4.59 3.06 3000 3.84 3.84	500	6.95	1.158
1250 5.39 2.246 1500 5.11 2.555 1750 4.84 2.823 2000 4.59 3.06 3000 3.84 3.84	750	6.33	1.183
1500 5.11 2.555 1750 4.84 2.823 2000 4.59 3.06 3000 3.84 3.84	1000	5.83	1.943
1750 4.84 2.823 2000 4.59 3.06 3000 3.84 3.84	1250	5.39	2.246
2000 4.59 3.06 3000 3.84 3.84	1500	5.11	2.555
3000 3.84 3.84	1750	4.84	2.823
	2000	4.59	3.06
4000 3.31 4.413	3000	3.84	3.84
	4000	3.31	4.413

Standard

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