

PU Linear T20 Aramid

Article code: TBPU000052

General information

Productgroup	Timing belts, PU Linear
Industry segment	General industry; Wood; Building materials: Stone & ceramics, Bricks & tiles
Main product feature	Energy saving, Positive drive, Thermoplastic, Abrasion resistant

Belt construction

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

Characteristics

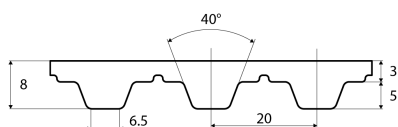
Food Grade (FG)	no
Antistatic (AS)	no
Oil & Fat resistance	yes

Technical data

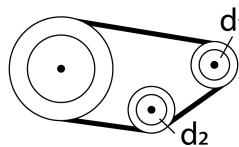
Tooth	profile		T20	
	pitch		20 mm	0.79 in.
Hardness body material	ISO 868		92A Shore	
Belt thickness	total		8 mm	0.31 in.
Belt weight			6.4 kg/m ²	1.31 lbs/ft ²
Coefficient of friction	tooth side to steel	dynamic	0,5	
Operating temperature	continuous	from / to	-10 / 80 °C	14 / 176 °F
Minimum pulley diameter	A) without counter flexing	number of teeth, t1	15	
		d1	92.64 mm	3.65 in.
		d2	100 mm	3.94 in.
	B) with counter flexing	number of teeth, t1	25	
		d1	156.32 mm	6.15 in.
		d2	100 mm	3.94 in.
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

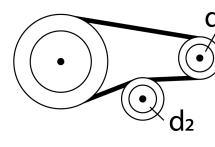
Side view



A) without counter flexing



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]
25	2900	1450	600000
32	3750	1875	770000
50	5700	2850	1220000
75	8400	4200	1900000
100	11000	5500	2450000
150.1	15000	7500	3800000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/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	6.95	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
4000	3.31	4.413

Standard