

# PU Linear AT20 Aramid

TBPU000170

## General information

<b>Productgroup</b>	Timing Belts, PU Linear
<b>Industry segment</b>	General industry; Wood; Building materials: Stone & ceramics, Bricks & tiles
<b>Main product feature</b>	Positive drive, Wear resistant

## Belt construction

<b>Tension member</b>	Aramid
<b>Body material</b>	polyurethane
<b>Tooth side surface</b>	polyurethane
<b>Back side surface</b>	polyurethane

## Characteristics

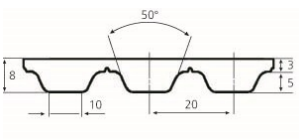
<b>Food Grade (FG)</b>	No
<b>Anti-static (AS)</b>	No
<b>Oil &amp; Fat resistance</b>	Good

## Technical data

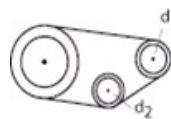
<b>Tooth</b>	profile		AT20	
	pitch		20 mm	0.787 in.
<b>Hardness body material</b>	according to ISO 868		92A Shore	
<b>Belt thickness</b>			8 mm	0.315 in.
<b>Coefficient of friction</b>	tooth side to steel	dynamic	0.5	
		static	0.6	
<b>Operating temperature</b>	continuous	from/to	-10 / 80 °C	14 / 176 °F
<b>Minimum pulley diameter</b>	A) without counter flexing	number of teeth, t1	18	
		d1	115.6 mm	4.551 in.
		d2	115.6 mm	4.551 in.
	B) with counter flexing	number of teeth, t1	18	
		d1	180 mm	7.087 in.
		d2	180 mm	7.087 in.
<b>Endless length</b>	minimum		1200 mm	47.244 in.
<b>Manufacturing length</b>	standard		100000 mm	328.084 ft.

## Reference image(s)

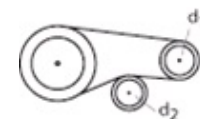
Side view



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.

The information on this data sheet apply to a temperature of approx. 20 °C (68 °F) unless otherwise stated.

Consult our specialists for further information like technical calculations. Instructions regarding joining, storage & maintenance and tracking & tensioning.

## Belt load

Standard belt width [mm]	Allow. tensile load Linear open end & Torque [N]	Allow. tensile load Linear welded endless [N]	Breaking force [N]	Spring force [N]	Weight [kg/m]
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## Tooth load

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]	Specific torque [Ncm/mm]
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## Pulley load

Number of teeth	outer Ø [mm]	Effective Ø [mm]	Ø with flanges [mm]	Max. bore [mm]	Number of teeth	outer Ø [mm]	Effective Ø [mm]	Ø with flanges [mm]	Max. bore [mm]
18	111.75	114.59	122	86	70	442.78	445.63	453	412
19	118.12	120.96	128	93	71	449.15	452.00	459	419
20	124.48	127.32	134	100	72	455.52	458.37	465	425
21	130.85	133.69	141	105	73	461.88	464.73	472	431
22	137.22	140.06	147	112	74	468.25	471.01	478	438
23	143.58	146.42	153	118	75	474.61	477.46	485	444
24	149.95	152.79	160	125	76	480.98	483.83	491	450
25	156.32	159.16	166	131	77	487.35	490.20	497	457
26	162.68	165.52	173	137	78	493.71	496.56	504	463
27	169.05	171.89	179	144	79	500.08	502.93	510	470
28	175.41	178.25	185	150	80	506.45	509.30	516	476
29	181.78	184.62	192	156	81	512.81	515.66	523	482
30	188.15	190.99	198	163	82	519.18	522.03	529	489
31	194.51	197.35	204	169	83	525.54	528.39	535	495
32	200.88	203.72	211	175	84	531.91	534.76	542	501
33	207.24	210.08	217	182	85	538.28	541.13	548	503
34	213.61	216.45	224	188	86	544.64	547.49	555	509
35	219.98	222.82	230	195	87	551.01	553.86	561	516
36	226.34	229.18	236	201	88	557.38	560.23	567	522
37	232.71	235.55	243	207	89	563.74	566.59	574	528
38	239.08	241.92	249	214	90	570.11	572.96	580	535
39	245.44	248.28	255	220	91	576.47	579.32	586	541
40	251.81	254.65	262	226	92	582.84	585.69	593	548
41	258.17	261.01	268	233	93	589.21	592.06	599	554
42	264.54	267.38	274	239	94	595.57	598.42	605	580
43	270.91	273.75	281	245	95	601.94	604.79	612	566
44	277.27	280.11	287	252	96	608.31	611.16	618	573
45	283.64	286.48	294	258	97	614.67	617.52	625	579
46	290.01	292.85	300	265	98	621.04	623.89	631	586
47	296.37	299.21	306	271	99	627.40	630.25	637	592
48	302.74	305.58	313	278	100	633.77	636.62	644	598
49	309.10	311.94	319	284	101	640.14	642.99	650	605
50	315.47	318.31	325	290	102	646.50	649.35	656	611
51	321.84	324.68	332	296	103	652.87	655.72	663	617
52	328.20	331.04	338	303	104	659.23	662.08	669	624
53	334.57	337.41	344	310	105	665.60	668.45	676	630
54	340.93	343.77	351	315	106	671.97	674.82	682	636
55	347.30	350.14	357	322	107	678.33	681.18	688	643
56	353.67	356.51	364	328	108	684.70	687.55	695	649
57	360.03	362.87	370	335	109	691.07	693.92	701	656
58	366.40	369.24	376	341	110	697.43	700.28	707	662
59	372.77	375.61	383	347	111	703.80	706.65	714	663
60	379.13	381.97	389	354	112	710.16	713.01	720	670
61	385.50	388.34	395	360	113	716.53	719.38	726	676
62	391.86	394.70	402	366	114	722.90	725.75	733	682
63	398.23	401.07	408	373	115	729.26	732.11	739	688
64	404.60	407.44	414	379	116	735.63	738.48	746	694
65	410.96	413.80	421	385	117	742.00	744.85	752	700
66	417.33	420.17	427	392	118	748.36	751.21	758	707
67	423.70	426.54	434	398	119	754.73	757.58	765	714
68	430.05	432.90	440	405	120	761.09	763.94	771	720
69	436.42	439.27	446	406					

Standard