Technical datasheet

PU Linear 100 TK5-6 Aramid

Article code: TBPU000159

General information

Productgroup	Timing belts, PU Linear
Industry segment	General industry; Container & packaging; Paper & print
Main product feature	Positive drive, Self-alignment, Wear resistant

Belt construction

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

Characteristics

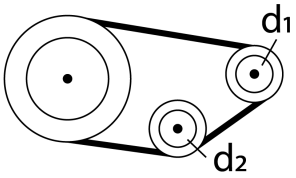
Food Grade (FG)	no
Antistatic (AS)	no
Oil & Fat resistance	good

Technical data

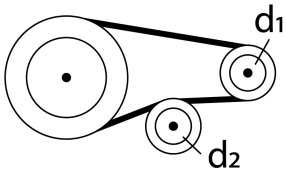
Tooth	profile		T5			
	pitch		5	mm	0.2	in.
Hardness body material	ISO 868		92A	Shore		
Belt thickness			2.2	mm	0.09	in.
Coefficient of friction	tooth side to steel	dynamic	0,5			
		static	0,6			
Operating temperature	continuous	from / to	-10 / 80	°C	14 / 176	°F
Minimum pulley diameter	A) without counter flexing	number of teeth, t1	25			
		d1	38.92	mm	1.53	in.
		d2	60	mm	2.36	in.
	B) with counter flexing	number of teeth, t1	25			
		d1	38.92	mm	1.53	in.
		d2	80	mm	3.15	in.
Belt width			100	mm	3.94	in.
Endless length	minimum		500	mm	19.69	in.
Manufacturing length	standard		100000	mm	328.08	ft.

Reference images

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]
10	430	215		75000
16	610	305		135000
25	980	490		210000
32	1140	570		260000
50	1800	900		409000
75	2700	1350		590000
100.1	3600	1800		780000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]	
0	2.452	0	
25	2.36	0.005	
50	2.274	0.009	
75	2.23	0.014	
100	2.175	0.018	
150	2.105	0.026	
200	2.05	0.034	
300	1.955	0.049	
400	1.867	0.062	
500	1.815	0.076	
750	1.697	0.106	
1000	1.626	0.136	
1250	1.56	0.163	
1500	1.5	0.188	
1750	1.448	0.211	
2000	1.403	0.234	
3000	1.265	0.316	
4000	1.166	0.389	

Standard	