Technical datasheet

PU Linear T10 Steel FG Transparent

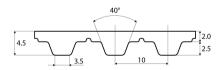




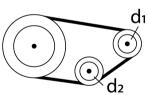
General information							
Productgroup	Timing belts, PU Linea	r					
Industry segment	Food: Meat & poultry,	Fish & seafoo	d; General industry				
Main product feature	Foodgrade, Oil & greas	se resistant, S	Self-alignment, Wear resist	ant bottom side			
Belt construction							
Tension member		steel					
Material	body	Polyurethan	e				
Surface	tooth side	Polyurethan	e				
	back side	Polyurethan	e				
Characteristics							
Food Grade (FG)	yes	EC 1935/20	04, EU 10/2011; FDA				
Antistatic (AS)	no						
Oil & Fat resistance	yes						
Technical data							
Tooth	profile			T10			
	pitch			10	mm	0.39	in.
Hardness body material	ISO 868			92A	Shore		
Belt thickness				4.5	mm	0.18	in.
Coefficient of friction	tooth side to steel		dynamic	0,5			
Operating temperature	continuous		from / to	-10 / 80	°C	14 / 176	°F
Endless length	minimum			500	mm	19.69	in.
Manufacturing length	standard			100000	mm	328.08	ft

Reference images

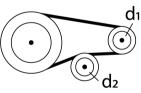
Side view



A) without 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	840	420	220000
16	1000	500	385000
25	2200	1100	632500
32	2620	1310	825000
50	4200	2100	1320000
75	5100	2550	1980000
100.1	7100	3550	2695000

Speed rpm [1/min] Specific tooth force [N/mmin] Specific power [W/mmin] 0 5.18 0 25 0.021 0.021 50 0.021 0.021 50 0.021 0.021 50 0.021 0.021 50 0.021 0.021 75 0.037 0.039 100 4.611 0.077 150 4.443 0.111 200 4.423 0.201 400 3.836 0.256 500 3.836 0.256 500 3.63 0.257 1000 3.163 0.527 1250 2.844 0.711 1750 2.844 0.711 1750 2.724 0.755 2000 2.612 0.871
25 0.021 50 4.855 0.04 75 4.7 0.059 100 4.611 0.077 150 4.443 0.111 200 4.275 0.143 300 4.028 0.201 400 3.836 0.256 500 3.68 0.307 750 3.43 0.429 1000 3.163 0.527 1250 2.992 0.623 1500 2.844 0.711 1750 2.724 0.759
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1750 2.724 0.795
2000 2.612 0.871
3000 2.278 1.139
4000 2.039 1.359

Standard

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