Technical datasheet

PU Linear STD5M Steel

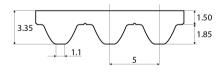
Article code: TBPU000095



General information							
Productgroup	Timing belts, PU I	linear					
Industry segment	General industry;	Container & pa	ackaging; Paper & print				
Main product feature	Positive drive, We	ear resistant					
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			STD5M			
	pitch				mm	0.2	in.
Hardness body material	ISO 868				Shore		
Belt thickness	total			3.4	mm	0.13	in.
Belt weight				4.6	kg/m²	0.94	lbs/ft²
Coefficient of friction	tooth side to stee	I	dynamic	0,5			
Operating temperature	continuous		from / to	-10 / 80	°C	14 / 176	°F
Minimum pulley diameter	A) without counte	r flexing	number of teeth, t1	16			
			d1	24.5	mm	0.96	in.
			d2	50	mm	1.97	in.
	B) with counter fl	exing	number of teeth, t1	20			
			d1	30.87	mm	1.22	in.
			d2	50	mm	1.97	in.
Belt width				100	mm	3.94	in
Deit witti	maximum			100		5.54	
Endless length	maximum minimum				mm	19.69	

Reference images

Side view

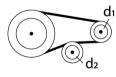




dı

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]
10	880	440	220000
15	1320	660	330000
20	1750	875	450000
30	2700	1300	690000
50	5060	2530	1265000
85	8600	4300	2120000
100.1	10120	5060	2530000

Speed rpm [1/min] Specific tooth force Specific power [W/mm]					
opeee (p.). [_,]	[N/mm]	opeenie perier [,]			
0	3.69	0			
25	3.611	0.008			
50	3.563	0.015			
75	3.512	0.022			
100	3.462	0.029			
150	3.39	0.042			
200	3.323	0.055			
300	3.19	0.08			
400	3.06	0.102			
500	2.981	0.124			
750	2.81	0.176			
1000	2.655	0.221			
1250	2.531	0.264			
1500	2.421	0.303			
1750	2.333	0.34			
2000	2.241	0.374			
3000	1.973	0.493			
4000	1.773	0.591			

Standard

Because of continuous development, the presented data is subject to alteration. This data replaces that included in previous publications. Ammeraal Beltech excludes any liability for the incorrect use of the above stated information. Subject to the general terms and conditions of sale and delivery, as applied by its operating companies, are all activities performed and services rendered by Ammeraal Beltech.