**Technical datasheet**

# PU Linear T2.5 Steel

**Article code: TBPU000001**

## General information

| | |
|---|---|
| **Productgroup** | Timing belts, PU Linear |
| **Industry segment** | General industry; Container & packaging; Paper & print |
| **Main product feature** | Energy saving, Positive drive, Thermoplastic, Abrasion resistant |

## Belt construction

| | | |
|---|---|---|
| **Tension member** | | steel |
| **Material** | **body** | Polyurethane |
| **Surface** | **tooth side** | Polyurethane |
| | **back side** | Polyurethane |

## Characteristics

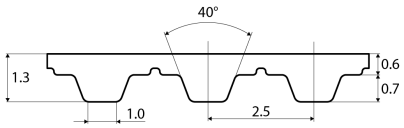
| | | |
|---|---|---|
| **Food Grade (FG)** | no | |
| **Antistatic (AS)** | no | |
| **Oil & Fat resistance** | yes | good |

## Technical data

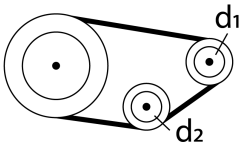
| | | | | | | |
|---|---|---|---|---|---|---|
| **Tooth** | profile | | T2.5 | | | |
| | pitch | | 2.5 | mm | 0.1 | in. |
| **Hardness body material** | ISO 868 | | 92A | Shore | | |
| **Belt thickness** | total | | 1.3 | mm | 0.05 | in. |
| **Belt weight** | | | 1.1 | kg/m² | 0.23 | lbs/ft² |
| **Coefficient 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 | 10 | | | |
| | | d1 | 15.05 | mm | 0.59 | in. |
| | | d2 | 30 | mm | 1.18 | in. |
| | B) with counter flexing | number of teeth, t1 | 15 | | | |
| | | d1 | 23.05 | mm | 0.91 | in. |
| | | d2 | 30 | mm | 1.18 | in. |
| **Belt width** | maximum | | 50 | mm | 1.97 | in. |
| **Endless length** | minimum | | 500 | mm | 19.69 | in. |
| **Manufacturing length** | standard | | 100000 | mm | 328.08 | ft. |

## Reference images

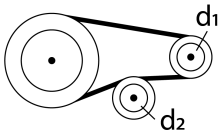
**Side view**




**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 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] |
|---|---|---|---|---|
| 4 | 120 | 60 | | 30000 |
| 6 | 180 | 90 | | 45000 |
| 10 | 240 | 120 | | 69000 |
| 20 | 540 | 270 | | 135000 |
| 25 | 720 | 360 | | 170000 |
| 32 | 860 | 430 | | 231000 |
| 50.1 | 1440 | 720 | | 360000 |

| Speed rpm [1/min] | Specific tooth force [N/mm] | Specific power [W/mm] | |
|---|---|---|---|
| 0 | 1.235 | 0 | |
| 25 | 1.18 | 0.002 | |
| 50 | 1.137 | 0.005 | |
| 75 | 1.138 | 0.007 | |
| 100 | 1.114 | 0.009 | |
| 150 | 1.069 | 0.013 | |
| 200 | 1.045 | 0.017 | |
| 300 | 0.995 | 0.025 | |
| 400 | 0.955 | 0.032 | |
| 500 | 0.923 | 0.038 | |
| 750 | 0.86 | 0.054 | |
| 1000 | 0.816 | 0.068 | |
| 1250 | 0.779 | 0.081 | |
| 1500 | 0.75 | 0.094 | |
| 1750 | 0.724 | 0.106 | |
| 2000 | 0.702 | 0.117 | |
| 3000 | 0.633 | 0.158 | |
| 4000 | 0.583 | 0.194 | |

| Standard |
|---|