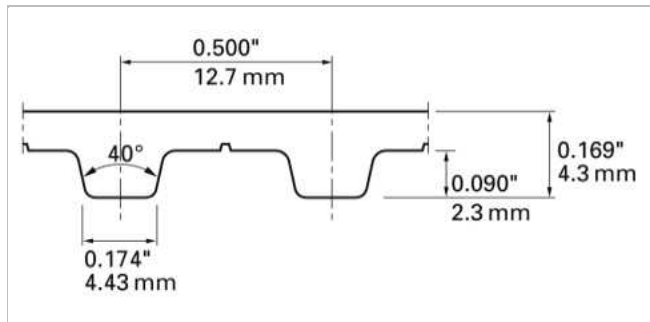
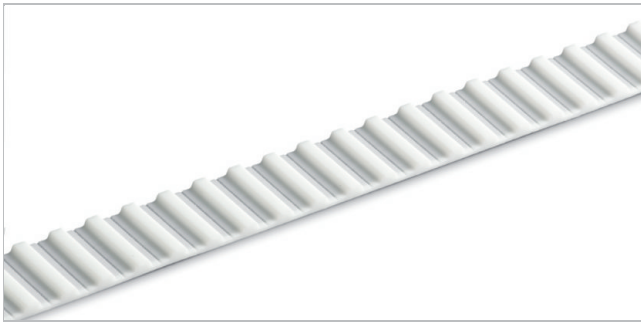


## Description

0.5" pitch, Imperial, T shape, Standard trapezoidal, Aramid cord



Sketch of basic shape

### Product Construction / Design

| Material Type | Color       | Hardness | Temperature range |     |    |     | Food grade <sup>1</sup> | Characteristic  |
|---------------|-------------|----------|-------------------|-----|----|-----|-------------------------|-----------------|
|               |             |          | °C                | °F  | °C | °F  |                         |                 |
| 01            | White       | 92       | -20               | -4  | 80 | 176 | No                      | TPU - polyester |
| 05            | Cobalt blue | 90       | -30               | -22 | 80 | 176 | Yes                     | TPU - polyether |
| 16            | Transparent | 85       | -30               | -22 | 80 | 176 | Yes                     | TPU - polyester |
| 22            | Transparent | 90       | -20               | -4  | 70 | 158 | Yes                     | TPU - polyester |
| 06            | Black       | 92       | -20               | -4  | 80 | 176 | No                      | TPU - polyester |

<sup>(1)</sup> This product is in compliance with relevant EU and/or US food contact requirements. Check the following link for detailed information [Documents of Compliance](#)

### Standard belt options - Conveying side

Unprocessed (U)

### Standard belt options - Teeth side

Unprocessed (U), Green polyamide fabric (P), Antistatic black polyamide fabric (A)<sup>(2)</sup>

<sup>(2)</sup> Fulfills ISO 9563

### Technical data

| Belt slitting width, nominal |      | Admissible tensile force, truly endless belt |     | Ultimate tensile strength |      | Tensile force for 1% elongation |      | Mass of belt (belt weight) |       |
|------------------------------|------|--|-----|---------------------------|------|---------------------------------|------|----------------------------|-------|
| mm                           | inch | N  | lbf | N                         | lbf  | N                               | lbf  | kg/m                       | lb/ft |
| 50.8                         | 2.0  | 2910   | 654 | 22400                     | 5036 | 4850                            | 1090 | 0.20                       | 0.13  |

Maximum belt width (150 mm / 6 inch).

Belt versions with increased thickness are available on request. Please consider larger minimum pulley diameters.

**The admissible tensile force** always corresponds with a belt elongation of 0.6%. Joined belts are calculated with half admissible force. Please contact Habasit for detailed information and calculations.

[Link to JDS:](#)

## Unit load table

| RPM                  | F <sub>i</sub> | M <sub>i</sub> | P <sub>i</sub> | RPM                  | F <sub>i</sub> | M <sub>i</sub> | P <sub>i</sub> | RPM                  | F <sub>i</sub> | M <sub>i</sub> | P <sub>i</sub> |
|----------------------|----------------|----------------|----------------|----------------------|----------------|----------------|----------------|----------------------|----------------|----------------|----------------|
| [min <sup>-1</sup> ] | [N/cm]         | [Nm/cm]        | [W/cm]         | [min <sup>-1</sup> ] | [N/cm]         | [Nm/cm]        | [W/cm]         | [min <sup>-1</sup> ] | [N/cm]         | [Nm/cm]        | [W/cm]         |
| 0                    | 44.65          | 0.090          | 0.000          | 1200                 | 25.96          | 0.052          | 6.586          | 3600                 | 18.28          | 0.037          | 13.924         |
| 20                   | 43.33          | 0.088          | 0.183          | 1300                 | 25.43          | 0.051          | 6.984          | 3800                 | 17.90          | 0.036          | 14.383         |
| 40                   | 42.19          | 0.085          | 0.357          | 1400                 | 24.93          | 0.050          | 7.373          | 4000                 | 17.54          | 0.035          | 14.837         |
| 60                   | 41.24          | 0.083          | 0.523          | 1500                 | 24.44          | 0.049          | 7.753          | 4500                 | 16.69          | 0.034          | 15.876         |
| 80                   | 40.34          | 0.082          | 0.683          | 1600                 | 24.01          | 0.048          | 8.118          | 5000                 | 15.93          | 0.032          | 16.840         |
| 100                  | 39.61          | 0.080          | 0.837          | 1700                 | 23.55          | 0.048          | 8.477          | 5500                 | 15.24          | 0.031          | 17.744         |
| 200                  | 36.66          | 0.074          | 1.551          | 1800                 | 23.20          | 0.047          | 8.824          | 6000                 | 14.61          | 0.029          | 18.534         |
| 300                  | 34.59          | 0.070          | 2.195          | 1900                 | 22.81          | 0.046          | 9.158          | 6500                 | 14.03          | 0.028          | 19.300         |
| 400                  | 32.96          | 0.067          | 2.787          | 2000                 | 22.42          | 0.045          | 9.488          | 7000                 | 13.49          | 0.027          | 19.975         |
| 500                  | 31.58          | 0.064          | 3.343          | 2200                 | 21.79          | 0.044          | 10.132         | 7500                 | 12.99          | 0.026          | 20.605         |
| 600                  | 30.45          | 0.062          | 3.867          | 2400                 | 21.17          | 0.043          | 10.743         | 8000                 | 12.53          | 0.025          | 21.196         |
| 700                  | 29.51          | 0.060          | 4.369          | 2600                 | 20.59          | 0.042          | 11.331         | 8500                 | 12.09          | 0.024          | 21.715         |
| 800                  | 28.62          | 0.058          | 4.848          | 2800                 | 20.08          | 0.040          | 11.884         | 9000                 | 11.67          | 0.024          | 22.206         |
| 900                  | 27.88          | 0.056          | 5.304          | 3000                 | 19.59          | 0.040          | 12.434         | 9500                 | 11.27          | 0.023          | 22.639         |
| 1000                 | 27.18          | 0.055          | 5.745          | 3200                 | 19.13          | 0.039          | 12.953         | 10000                | 10.90          | 0.022          | 23.051         |
| 1100                 | 26.55          | 0.054          | 6.175          | 3400                 | 18.69          | 0.038          | 13.444         |                      |                |                |                |

| Technical data |      |                |    |      |                |
|----------------|------|----------------|----|------|----------------|
| ØB             |      | n <sub>B</sub> | ØA |      | n <sub>A</sub> |
| mm             | inch |                | mm | inch |                |
| 60             | 2.36 | 15             | 60 | 2.36 | 20             |



All data are approximate values under **standard climatic conditions**: 23 °C / 73 °F, 50% relative humidity (DIN 50005 / ISO 554), and are based on the Master Joining Method.

Limited representative testing based on a standard configuration is carried out to estimate minimum pulley diameters. Please contact Habasit for specific guidance regarding non-standard applications, including, but not exclusively, when profiles or cleats are used, or if the belt working temperature is close to the limits listed in this document.

### Disclaimer

#### Product Application Disclaimer (valid for ALL Habasit products and mentioned on all PDS)

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