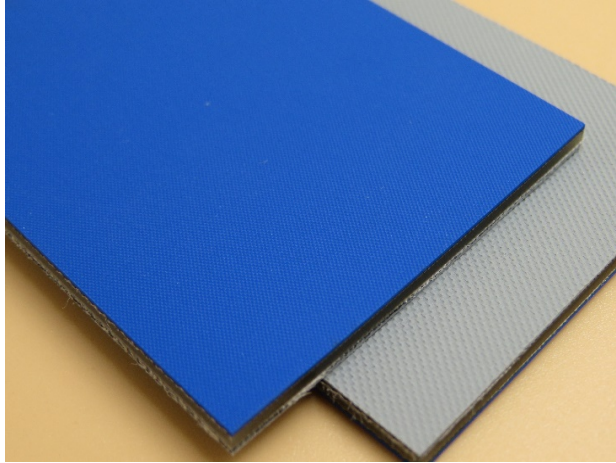


|                     |           |                                      |
|---------------------|-----------|--------------------------------------|
| Technical Datasheet | PolyBelt™ | Power Transmission and Conveyor Belt |
|                     | Belt type | <b>TFL-18S</b> PB-075 Ver.3          |

### Applications

- Textile machine
- General transmission belt
- Centrifugal separator

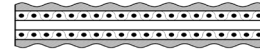
### Construction



| Top side        | Bottom side   |
|-----------------|---------------|
| NBR             | NBR           |
| 0.4mm           | 0.4mm         |
| Taffeta pattern | Rough pattern |
| Dark blue       | Gray          |

| Tension member | Splice |
|----------------|--------|
| Polyamide      | Skiver |
| Film           |        |
| 1.75mm         |        |

Construction



### Dimensions

|                      |                       |
|----------------------|-----------------------|
| Width/Roll (max.)    | 325mm                 |
| Width/Endless (max.) | 300mm                 |
| Length (max.)        | 105m                  |
| Total thickness      | 3.35mm                |
| Weight               | 3.7 Kg/m <sup>2</sup> |

Please contact Nitta if you need other dimensions.

### Regulatory compliance

RoHS(2011/65/EC,  
(EU)2015/863)

### Features

- Antistatic
- TFO twister
- Draw texturing machine
- Superior abrasion resistance
- Whisper
- Thin (Light) rubber type

### Properties

#### Minimum pulley diameter

|                                |       |
|--------------------------------|-------|
| Power Transmission Application |       |
| Skiver                         | 175mm |

#### Conveyor Application

|        |   |
|--------|---|
| Skiver | - |
|--------|---|

#### Dynamic properties

|                                  |           |
|----------------------------------|-----------|
| Standard elongation              | 2.0%      |
| Tension after relaxation at 2.0% | 34.0N/mm  |
| Initial tension at 3.0%          | 102.0N/mm |
| Tension after relaxation at 3.0% | 51.0N/mm  |
| Operating temperature range      | -20~80°C  |
| Operating temperature range*     | -20~80°C  |

\*When under continuous use

#### Tensile properties

|                              |           |
|------------------------------|-----------|
| Tensile strength             | 680N/mm   |
| Elongation at break          | 20%       |
| Maximum allowable tension    | 102.0N/mm |
| Maximum allowable elongation | 3.0%      |

#### Coefficient of friction

|        |                   |         |
|--------|-------------------|---------|
| Top    | vs. Steel         | 0.5~0.6 |
|        | vs. Paper         | 0.6~0.7 |
| Bottom | vs. Steel         | 0.5~0.6 |
|        | vs. Paper         | 0.6~0.7 |
|        | vs. Lagged pulley | 0.7~0.9 |
|        | vs. POM (resin)   | 0.5~0.7 |