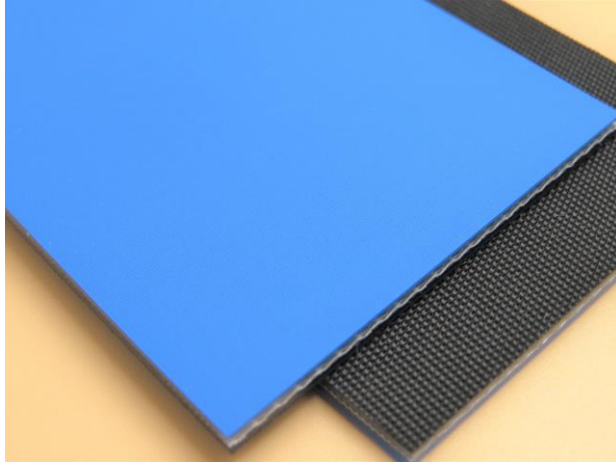


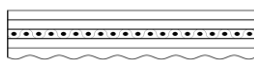
|                            |                    |                                      |
|----------------------------|--------------------|--------------------------------------|
| <b>Technical Datasheet</b> | <i>PolySprint™</i> | Power Transmission and Conveyor Belt |
|                            | Belt type          | <b>TFL-15E20</b>                     |
|                            |                    | PS-042 ver.0                         |

### Applications

- Ring spinning machine
- Postal machine
- General transmission belt
- Textile machine(Tangential belt, TFO twister)

### Construction



|                 |   |
|-----------------|---|
| Top side        | Bottom side   |
| NBR             | NBR   |
| Taffeta pattern | Textured surface  |
| Dark blue       | Black   |
| Tension member  | Splice  |
| Polyester       | Finger  |
| Fabric          | (10×120)  |
| Construction    |  |

### Dimensions

|                      |                       |
|----------------------|-----------------------|
| Width/Roll (max.)    | 500mm                 |
| Width/Endless (max.) | 500mm                 |
| Length (max.)        | 200m                  |
| Total thickness      | 2.0mm                 |
| Weight               | 2.3 Kg/m <sup>2</sup> |

©Please contact Nitta if you need other dimensions.

### Regulatory compliance

RoHS(2011/65/EC)  
REACH regulation

### Features

Antistatic  
Whisper  
Energy saving  
Easy splice with NITTA tool

### Properties

#### Minimum pulley diameter

|              |        |      |
|--------------|--------|------|
| Flexing      | Finger | 25mm |
| Back flexing | Finger | 25mm |

#### Dynamic properties

|   |  |        |
|---|--|--------|
| Standard elongation                           |  | 1.0%   |
| Tension after relaxation at 1.0% <sup>*</sup> |  | 15N/mm |
| Initial tension at 2.0%                       |  | 37N/mm |
| Tension after relaxation at 2.0% <sup>*</sup> |  | 25N/mm |
| Operating temperature range                   |  | 0~60°C |

<sup>\*</sup>After 200hrs running-in

#### Tensile properties

|                              |         |
|------------------------------|---------|
| Tensile strength             | 150N/mm |
| Elongation at break          | 10%     |
| Maximum allowable tension    | 37N/mm  |
| Maximum allowable elongation | 2.0%    |

#### 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 |