

# Heavy Conveyor Belts TMIPH529FBS



## Main industry segments

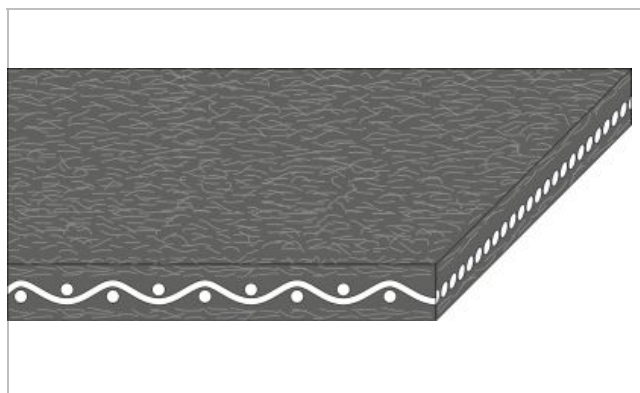
Airport, Distribution centers, Electronics, Marble and stone, Parcel distribution / Overnight carrier, Solid wood, Wood surfacing

## Applications

Accumulation belt, Diverting belt, Infeed belt, Merge belt, Powerturn belt, Transfer belt

## Special features

Cut resistant, Powerturn suitable



| Product Construction / Design |                             |
|-------------------------------|-----------------------------|
| Conveying side material       | Polyester (PET)             |
| Conveying side surface        | Nonwoven (fleece) structure |
| Conveying side property       | Non-adhesive                |
| Conveying side color          | Anthracite                  |
| Traction layer (material)     | Polyester (PET) scrim       |
| Number of Fabrics             | 1                           |
| Pulley side material          | Polyester (PET)             |
| Pulley side surface           | Nonwoven (fleece) structure |
| Pulley side property          | Non-adhesive                |
| Pulley side color             | Anthracite                  |

| Product characteristics                |                               |
|--|-------------------------------|
| Antistatically equipped                | No                            |
| Adhesive free joining method           | No                            |
| Flammability                           | Flame retardant to ASTM D-378 |
| Food suitability, FDA conformance      | No                            |
| Food suitability, USDA recommendations | No use intended               |
| Food suitability, EU conformance       | No                            |

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| Technical data  |      |                   |               |
|---|------|-------------------|---------------|
| Thickness of belt   | 3.2  | mm                | 0.13 inch     |
| Mass of belt (belt weight)  | 3.7  | kg/m <sup>2</sup> | 0.760 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)                                  | 23   | N/mm              | 130 lbf/in    |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 9.7  | N/mm              | 55 lbf/in     |
| Min. operating temperature admissible (continuous)  | -23  | °C                | -10 °F        |
| Max. operating temperature admissible (continuous)  | 110  | °C                | 230 °F        |
| Coefficient of friction (pulley side / steel driving pulley)  | 0.25 | -                 |               |
| Coefficient of friction (pulley side / driving pulley with friction cover)  | 0.35 | -                 |               |
| Coefficient of friction (pulley side / pickled steel slider bed)  | 0.30 | -                 |               |
| Coefficient of friction (pulley side / phenolic resin slider bed)   | 0.25 | -                 |               |
| Coefficient of friction (pulley side / stainless steel slider bed)  | 0.20 | -                 |               |
| Seamless manufacturing width  | 1829 | mm                | 72.00 inch    |
| On request other seamless manufacturing width   | 1524 | mm                | 60 inch       |

### Joining related properties

| Joining method |   |
|----------------|---|
| Clipper #2HT   | Master joining method for standard applications |
| Thermofix      | Optional joining method                         |

[Link to JDS:](#)

| Joining method   |                | Clipper #2HT | Thermofix  |
|--|----------------|--------------|------------|
| Pulley diameter (minimum)  | mm<br>inch     | 76<br>3.00   | 76<br>3.00 |
| Pulley diameter minimum with counter flection                            | mm<br>inch     | 76<br>3.00   | 76<br>3.00 |
| Admissible tensile force per unit of width                               | N/mm<br>lbf/in | 22<br>128    |            |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br>lbf/in | 5.6<br>32    |            |
| Slider bed suitable  |                | Yes          | Yes        |
| Carrying rollers suitable  |                | Yes          | Yes        |
| Troughed installation suitable   |                | No           | No         |
| Powerturns / curved installations  |                | Yes          | Yes        |
| Knife-edge (nosebar) suitable  |                | No           | No         |
| Low noise applications   |                | Yes          | Yes        |
| Metal detector suitable  |                | No           | No         |

Meets 2003 functional belt standards for UPS for elongation/tear and fastener retention

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

*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.*

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## Chemical resistance

Link to 'Chemical resistance information': <https://rims.habasit.com>

## Mode of use or conveyance

Horizontal

## Calculations

For most applications calculation is not required. Should you still need a calculation: please ask Habasit.

## Recommendation

Do not go below initial elongation (epsilon) ~ 0.3%, Install the slack belt and tension until running perfectly under the full belt load

Protect belts from sunlight/UV-radiation/dust and dirt. Store spare belts in a cool and dry place and if possible in their original packaging. Check Link for Storage requirements:

["https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf"](https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf)

No danger and limitation

|             |                       |
|-------------|-----------------------|
| Group       | Nonwoven Belts        |
| Sub-Group   | Flame Retardant Belts |
| Item number | H250000455            |

## Disclaimer

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