

# Light Conveyor Belts

## NNT-28ESBE-E2



### Main industry segments

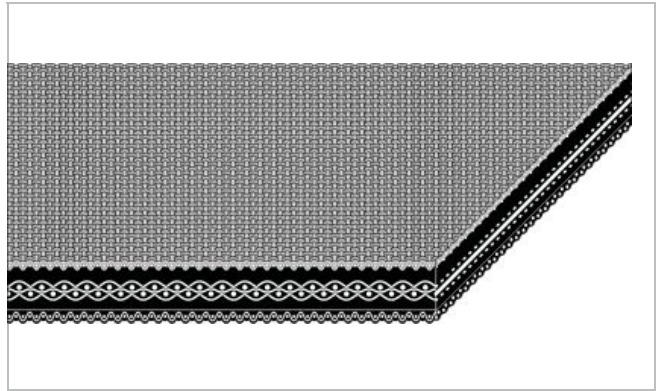
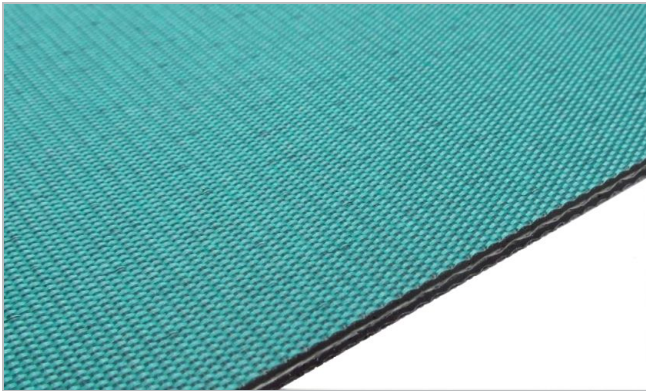
Distribution centers

### Applications

Accumulation belt, Merge belt, Transfer belt

### Special features

Abrasion resistant, Antistatic, Low friction conveying side



| Product Construction / Design |                    |
|-------------------------------|--------------------|
| Conveying side material       | Polyester (PET)    |
| Conveying side surface        | Impregnated fabric |
| Conveying side property       | Non-adhesive       |
| Conveying side color          | Light green        |
| Traction layer (material)     | Polyester (PET)    |
| Number of Fabrics             | 3                  |
| Pulley side material          | Polyester (PET)    |
| Pulley side surface           | Impregnated fabric |
| Pulley side property          | Non-adhesive       |
| Pulley side color             | Black              |

| Product characteristics                |                            |
|--|----------------------------|
| Antistatically equipped                | Yes                        |
| Adhesive free joining method           | Yes                        |
| Flammability                           | In accordance with ISO 340 |
| 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   | 3.1 mm                | 0.12 inch     |
| Mass of belt (belt weight)  | 3.7 kg/m <sup>2</sup> | 0.758 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)                                  | 30 N/mm               | 171 lbf/in    |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 18 N/mm               | 103 lbf/in    |
| Min. operating temperature admissible (continuous)  | -10 °C                | 14 °F         |
| Max. operating temperature admissible (continuous)  | 70 °C                 | 158 °F        |
| Coefficient of friction (pulley side / steel driving pulley)  | 0.10 -                |               |
| Coefficient of friction (pulley side / driving pulley with friction cover)  | 0.35 -                |               |
| Coefficient of friction (pulley side / pickled steel slider bed)  | 0.15 -                |               |
| Coefficient of friction (pulley side / phenolic resin slider bed)   | 0.10 -                |               |
| Coefficient of friction (pulley side / stainless steel slider bed)  | 0.15 -                |               |
| Seamless manufacturing width  | 2850 mm               | 112.20 inch   |

### Joining related properties

| Joining method    |   |
|-------------------|---|
| Flexproof 10 x 80 | Master joining method for standard applications |

[Link to JDS:](#)

| Joining method   |                | Flexproof 10 x 80 |
|--|----------------|-------------------|
| Pulley diameter (minimum)  | mm<br>inch     | 180<br>7.09       |
| Pulley diameter minimum with counter flection                            | mm<br>inch     | 200<br>7.87       |
| Admissible tensile force per unit of width                               | N/mm<br>lbf/in | 26<br>148         |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br>lbf/in | 13<br>74          |
| Slider bed suitable  |                | No                |
| Carrying rollers suitable  |                | Yes               |
| Troughed installation suitable   |                | No                |
| Powerturns / curved installations  |                | No                |
| Knife-edge (nosebar) suitable  |                | No                |
| Metal detector suitable  |                | No                |

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>

### REACH

This product contains more than 0.1% of the following substance(s) of very high concern (SVHC) and is (are) included in the Candidate List. Further information is available from your Habasit representation.

*Substance(s); Triphenyl phosphate (TPP)*

### Mode of use or conveyance

Accumulation, Diverting, 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%

Store spare belts in a cool and dry place and if possible in their original packaging. Protect spare belts from sunlight/UV-radiation/dust/dirt! 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)

This product has not been tested according to ATEX standards (atmospheres with explosion risk - ATEX 95 regulation or EU directive 2014/34/EU) and therefore is subject to user's analysis in the respective environment

|             |                       |
|-------------|-----------------------|
| Group       | PVC Belts             |
| Sub-Group   | Flame Retardant Belts |
| Item number | H100066380            |

### Disclaimer

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

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