

# Light Conveyor Belts

## NSL-10ELBV-E3



### Main industry segments

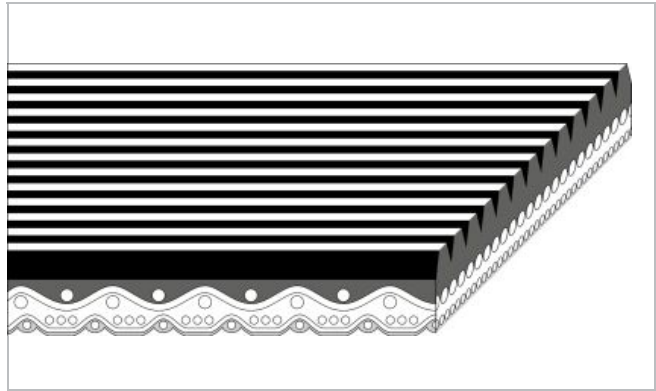
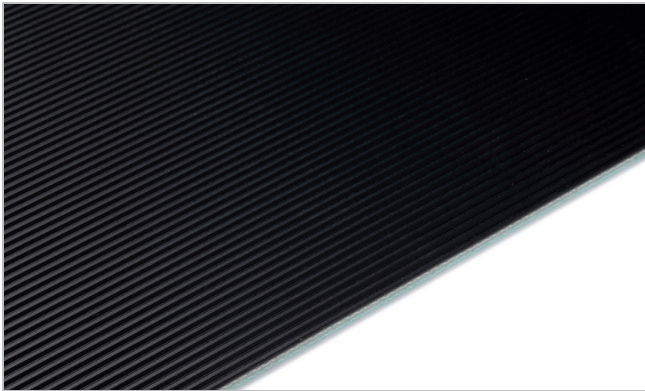
Distribution centers

### Applications

Acceleration belt, Decline belt, Feeder belt, Heavy-load conveyor belts, Incline belt, Induction belt, Sorting belt

### Special features

Energy saving



| Product Construction / Design |                               |
|-------------------------------|-------------------------------|
| Conveying side material       | Polyvinylchloride (PVC)       |
| Conveying side surface        | Longitudinal groove structure |
| Conveying side property       | Super-adhesive                |
| Conveying side color          | Black                         |
| Traction layer (material)     | Polyester (PET)               |
| Number of Fabrics             | 2                             |
| Pulley side material          | Polyester (PET)               |
| Pulley side surface           | Impregnated fabric            |
| Pulley side property          | Non-adhesive                  |
| Pulley side color             | Light green                   |

| Product characteristics                |   |
|--|---|
| Antistatically equipped                | Yes   |
| Adhesive free joining method           | Ja  |
| Flammability                           | Tested according to UL 94HB (USA) requirement; HB= Horizontal Burning |
| 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   | 2.5 mm                | 0.10 tommer   |
| Mass of belt (belt weight)  | 2.6 kg/m <sup>2</sup> | 0.533 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)                                  | 11 N/mm               | 63 lbf/in     |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 7.0 N/mm              | 40 lbf/in     |
| Min. operating temperature admissible (continuous)  | -10 °C                | 14 °F         |
| Max. operating temperature admissible (continuous)  | 60 °C                 | 140 °F        |
| Coefficient of friction (pulley side / steel driving pulley)  | 0.10 -                |               |
| Coefficient of friction (pulley side / driving pulley with friction cover)  | 0.25 -                |               |
| Coefficient of friction (pulley side / pickled steel slider bed)  | 0.15 -                |               |
| Coefficient of friction (pulley side / phenolic resin slider bed)   | 0.15 -                |               |
| Coefficient of friction (pulley side / stainless steel slider bed)  | 0.15 -                |               |
| Seamless manufacturing width  | 3000 mm               | 118.11 tommer |

### 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><i>tommer</i>   | 30<br><i>1.18</i> |
| Pulley diameter minimum with counter flection                            | mm<br><i>tommer</i>   | 30<br><i>1.18</i> |
| Admissible tensile force per unit of width                               | N/mm<br><i>lbf/in</i> | 13<br><i>74</i>   |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br><i>lbf/in</i> | 9.5<br><i>54</i>  |
| Slider bed suitable  |                       | Yes               |
| Carrying rollers suitable  |                       | Yes               |
| Troughed installation suitable   |                       | No                |
| Powerturns / curved installations  |                       | No                |
| Knife-edge (nosebar) suitable  |                       | No                |
| Low noise applications   |                       | Yes               |
| Metal detector suitable  |                       | Yes               |

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 til informasjon om kemisk resistens <https://rims.habasit.com>

### Mode of use or conveyance

Horizontal, Inclined

### 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

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  | Energy Saving Belts |
| Del nummer | H100066208          |

### Ansvarsfraskrivelse

#### Ansvarsfraskrivelse for produktanvendelse (gælder for ALLE Habasit produkter og nævnt på alle produktdatablade)

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