

Light Conveyor Belts NSL-10ESBV-E3



Main industry segments

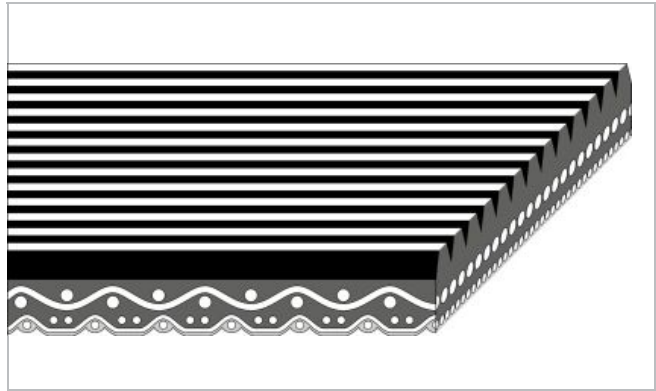
Airport, Distribution centers

Applications

Acceleration belt, Decline belt, Incline belt, Induction belt, Sorting belt

Special features

Antistatic, Energy saving, Flame retardant, Low noise applications suitable



| 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 | 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 | 2.5 mm | 0.10 inch |
| Mass of belt (belt weight) | 2.6 kg/m ² | 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) | 6.5 N/mm | 37 lbf/in |
| Min. operating temperature admissible (continuous) | -30 °C | -22 °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) | 0.25 - | |
| 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 inch |
| Hardness belt cover (See Recommendation) | 86 ShA | |

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 inch | 40 1.57 |
| Pulley diameter minimum with counter flection | mm inch | 40 1.57 |
| Admissible tensile force per unit of width | N/mm lbf/in | 13 74 |
| Admissible tensile force per unit of width at max. operating temperature | N/mm lbf/in | 7.5 43 |
| 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 | | 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>

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%

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)

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 |
| Item number | H950019589 |

Disclaimer

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