

Light Conveyor Belts

NHM-10EKBV 11



Main industry segments

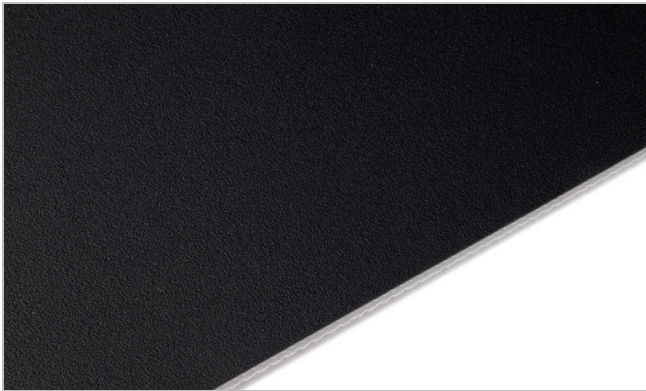
Distribution centers, General conveying

Applications

Check-out belt, Sorting belt, Transfer belt, Loading/Unloading belt

Special features

Abrasion resistant, Anti-glare, Antistatic, Low noise applications suitable, Metal detection units suitable



| Product Construction / Design | |
|-------------------------------|-------------------------|
| Conveying side material | Polyvinylchloride (PVC) |
| Conveying side surface | Super matt finish |
| Conveying side property | Non-adhesive |
| Conveying side color | Black |
| Traction layer (material) | Polyester (PET) |
| Number of Fabrics | 2 |
| Pulley side material | Polyester (PET) |
| Pulley side surface | Fabric |
| Pulley side property | Non-adhesive |
| Pulley side color | White |

| Product characteristics | |
|--|--|
| Antistatically equipped | Yes |
| Adhesive free joining method | Yes |
| Flammability | Flame retardant to ASTM D-378, 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 | 2.1 | mm | 0.08 inch |
| Mass of belt (belt weight) | 2.4 | kg/m ² | 0.492 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) | 70 | °C | 158 °F |
| Coefficient of friction (pulley side / steel driving pulley) | 0.15 | - | |
| Coefficient of friction (pulley side / driving pulley with friction cover) | 0.35 | - | |
| Coefficient of friction (pulley side / pickled steel slider bed) | 0.25 | - | |
| Coefficient of friction (pulley side / phenolic resin slider bed) | 0.20 | - | |
| Coefficient of friction (pulley side / stainless steel slider bed) | 0.15 | - | |
| Seamless manufacturing width | 3000 | mm | 118.11 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 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 | 17 97 |
| Admissible tensile force per unit of width at max. operating temperature | N/mm lbf/in | 11 63 |
| 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 to 'Chemical resistance information': <https://rims.habasit.com>

Mode of use or conveyance

Accumulation, 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) $\sim 0.3\%$, 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)

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 | General Purpose Conveyor Belts |
| Item number | H100066137 |

Disclaimer

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