

# Light Conveyor Belts

## NHM-10ESBV 13



### Main industry segments

Airport, Distribution centers

### Applications

Transfer belt, Loading/Unloading belt

### Special features

Absorption of shock loads, Antistatic, Flame retardant, Low noise applications 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             | Off-white               |

| 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                                                                                                           | 3.0  | mm                | 0.12 inch     |
| Mass of belt (belt weight)                                                                                                  | 3.6  | kg/m <sup>2</sup> | 0.737 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)                                  | 10   | N/mm              | 57 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)                                                                          | -15  | °C                | 5 °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   |
| Hardness belt cover (See Recommendation)                                                                                    | 80   | 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<br>inch     | 40<br>1.57        |
| Pulley diameter minimum with counter flection                            | mm<br>inch     | 40<br>1.57        |
| Admissible tensile force per unit of width                               | N/mm<br>lbf/in | 16<br>91          |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br>lbf/in | 11<br>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>

### 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, 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

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)

In case the pulley diameter used in an application is 80 mm or more, a minimum temperature of -10 °C is applicable, 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, Shore Hardness not measured according to ISO7619-1. This value is taken directly on the belt cover without any consideration of top layer thickness

|             |                       |
|-------------|-----------------------|
| Group       | PVC Belts             |
| Sub-Group   | Flame Retardant Belts |
| Item number | H100066234            |

### Disclaimer

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