

# 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 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	16 91
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>

### 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*

### 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

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

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