# Light Conveyor Belts NHM-10ELBV-E3

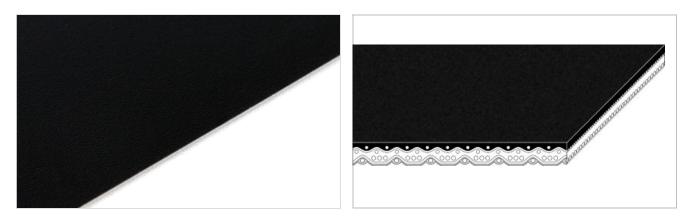


### Applications

Heavy-load conveyor belts, Sorting belt

## **Special features**

Energy saving



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	Impregnated fabric	
Pulley side property	Non-adhesive	
Pulley side color	Light green	

Product characteristics		
Antistatically equipped	Yes	
Adhesive free joining method	Yes	
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	2.1	mm	0.08	inch
Mass of belt (belt weight)	2.5	kg/m²	0.512	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)	0	°C	32	°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

#### Joining related properties

Flexproof 10 x 80	Master joining method for standard applications			
ink to JDS:				
Joining method		Flexproof 10 x 80		
Pulley diameter (minimum)	mm <i>inch</i>	30 <i>1.18</i>		
Pulley diameter minimum with counter flection	mm <i>inch</i>	30 <i>1.18</i>		
Admissible tensile force per unit of width	N/mm <i>Ibf/in</i>	18 <i>103</i>		
Admissible tensile force per unit of width at max. operating temperature	N/mm Ibf/in	17 97		
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.

## Light Conveyor Belts NHM-10FL BV-F3



#### **Chemical resistance**

Link to 'Chemical resistance information': https://rims.habasit.com

#### Mode of use or conveyance

Accumulation, Diverting, 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%

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"

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 Sub-Group Item number

**PVC Belts Energy Saving Belts** H100066193

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