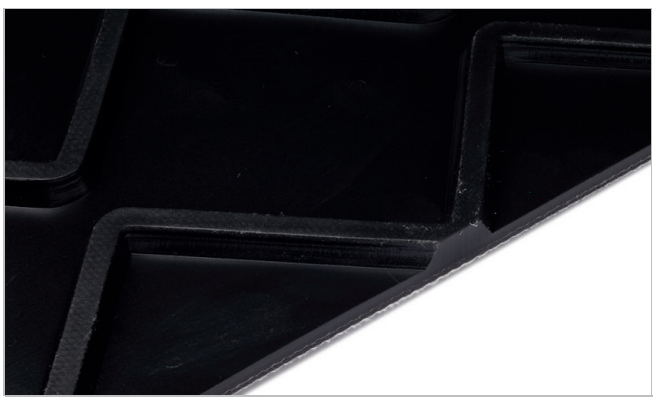
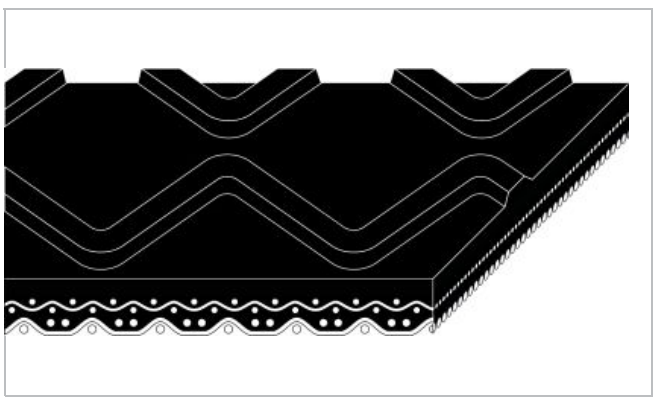
Light Conveyor Belts
NAD-10ESBV 13

Main industry segments
Airport, Distribution centers

Applications
Check-in belt, Decline belt, Incline belt

Special features
Absorption of shock loads, Antistatic, Flame retardant, High coefficient of friction surface, Low noise applications suitable





Product Construction / Design	
Conveying side material	Polyvinylchloride (PVC)
Conveying side surface	Diagonal wave structure
Conveying side property	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	Gray

Product characteristics	
Antistatically equipped	Yes
Adhesive free joining method	Yes
Flammability	In accordance with ISO 340
Food suitability, FDA conformance	No
Food suitability, EU conformance	No

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Technical data				
Thickness of belt	8.2	mm	*0.32*	*inch*
Mass of belt (belt weight)	5.7	kg/m²	*1.167*	*lb/sqft*
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	8.5	N/mm	*49*	*lbf/in*
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	6.0	N/mm	*34*	*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)	0.15	-		
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*	60 *2.36*
Pulley diameter minimum with counter flection	mm *inch*	80 *3.15*
Admissible tensile force per unit of width	N/mm *lbf/in*	14 *80*
Admissible tensile force per unit of width at max. operating temperature	N/mm *lbf/in*	8.0 *46*
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

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
Declined, 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%

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"

- Theoretical pitch in transverse direction: 104.67 mm (4.121 in). The accuracy is typically in a range of +/- 0.1 %, - Theoretical pitch of the surface structure in length direction: 81.57 mm (3.211 in). The accuracy is typically in a range of +/- 0.5% whereas the inner layers of a coil have a systematically deviation (longer pitch) compared to the outer layers, 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	Flame Retardant Belts
Item number	H100066233

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