

Tobacco Belts

PNB-5EVCX



Main industry segments

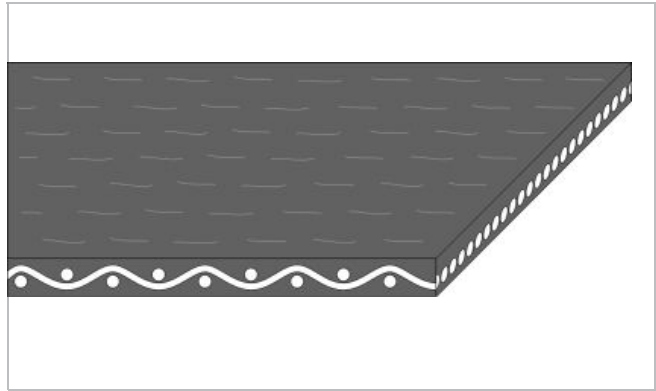
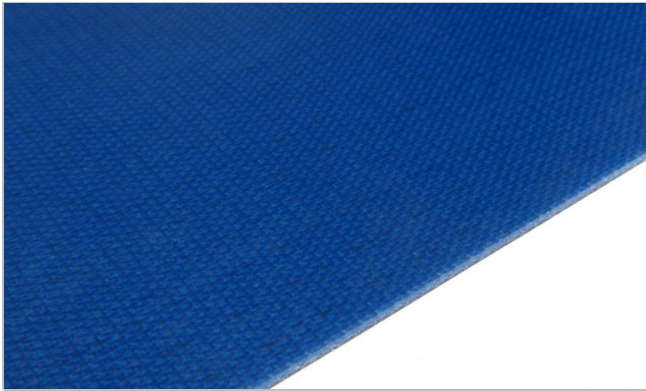
Tobacco green leaf processing, Tobacco primary processing

Applications

Side skirt

Special features

Abrasion resistant, Antistatic, Chemical resistant, Flexibility in all directions, High hydrolysis resistant, Low temperature resistant, Oil resistant, UV resistant



Product Construction / Design	
Conveying side material	Thermoplastic polyolefine (TPO)
Conveying side surface	Smooth
Conveying side property	Non-adhesive
Conveying side color	Cobalt blue
Traction layer (material)	Polyester (PET)
Number of Fabrics	1
Pulley side material	Thermoplastic polyolefine (TPO)
Pulley side surface	Smooth
Pulley side color	Cobalt blue

Product characteristics	
Antistatically equipped	Yes
Adhesive free joining method	Yes
Flammability	No specific flammability prevention property
Food suitability, FDA conformance	Yes - Check Document of Compliance (DoC) in our Portal
Food suitability, USDA recommendations	No use intended
Food suitability, EU conformance	Yes - Check Document of Compliance (DoC) in our Portal

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Technical data		
Thickness of belt	1.30 mm	0.05 inch
Mass of belt (belt weight)	1.2 kg/m ²	0.246 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	4.0 N/mm	23 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	2.6 N/mm	15 lbf/in
Min. operating temperature admissible (continuous)	-20 °C	-4 °F
Max. operating temperature admissible (continuous)	70 °C	158 °F
Coefficient of friction (pulley side / steel driving pulley)	0.30 -	
Coefficient of friction (pulley side / driving pulley with friction cover)	0.40 -	
Coefficient of friction (pulley side / pickled steel slider bed)	0.50 -	
Coefficient of friction (pulley side / phenolic resin slider bed)	0.50 -	
Coefficient of friction (pulley side / stainless steel slider bed)	0.35 -	
Seamless manufacturing width	3000 mm	118.11 inch

Joining related properties

Joining method	
Flexproof 20 x 80	Master joining method for standard applications

[Link to JDS:](#)

Joining method		Flexproof 20 x 80
Pulley diameter (minimum)	mm inch	80 3.15
Pulley diameter minimum with counter flection	mm inch	80 3.15
Admissible tensile force per unit of width	N/mm lbf/in	5.0 29
Slider bed suitable		Yes
Carrying rollers suitable		No
Troughed installation suitable		Yes
Powerturns / curved installations		Yes
Knife-edge (nosebar) suitable		No
Low noise applications		No
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

Side skirt

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%, Observe the indications of the machine handbook from the machine manufacturers

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, This product is not dedicated for conveyor belt use due to its construction as a side skirt material

Group	TPO Belts
Sub-Group	General Purpose Belts
Item number	H950023321

Disclaimer

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

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