

Processing Belts

PNB-12EVTO



Main industry segments

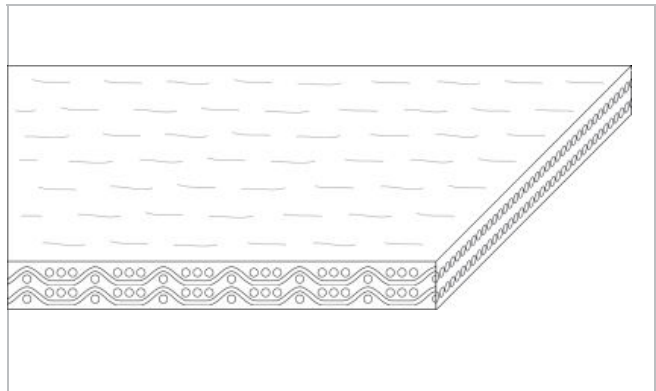
Marble and stone

Applications

Engineered stone processing

Special features

Abrasion resistant, Chemical resistant, Easy cleanability, Hydrolysis resistant



Product Construction / Design	
Conveying side material	Thermoplastic polyolefine (TPO)
Conveying side surface	Smooth
Conveying side property	Non-adhesive
Conveying side color	Transparent
Traction layer (material)	Polyester (PET)
Number of Fabrics	2
Pulley side material	Thermoplastic polyolefine (TPO)
Pulley side surface	Smooth
Pulley side property	Non-adhesive
Pulley side color	Transparent

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
Other conformance/approval	Pyrolysis conformable

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Technical data			
Thickness of belt	2.7 mm	0.11 inch	
Mass of belt (belt weight)	2.4 kg/m ²	0.492 lb/sqft	
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	16 N/mm	91 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)	-10 °C	14 °F	
Max. operating temperature admissible (continuous)	100 °C	212 °F	
Coefficient of friction (pulley side / steel driving pulley)	0.20 -		
Coefficient of friction (pulley side / driving pulley with friction cover)	0.35 -		
Coefficient of friction (pulley side / pickled steel slider bed)	0.30 -		
Coefficient of friction (pulley side / phenolic resin slider bed)	0.20 -		
Coefficient of friction (pulley side / stainless steel slider bed)	0.30 -		
Seamless manufacturing width	3000 mm	118.11 inch	

Joining related properties

Joining method	
Step-Flex 20 x 50	Master joining method for standard applications

[Link to JDS:](#)

Joining method		Step-Flex 20 x 50
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	16 91
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	4.8 27
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		Yes
Powerturns / curved installations		No
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

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%, Install the slack belt and tension until running perfectly under the full belt load

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

Group	Marble Belts
Sub-Group	-
Item number	H100066292

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