

Processing Belts

ENB-12ERCH



Main industry segments

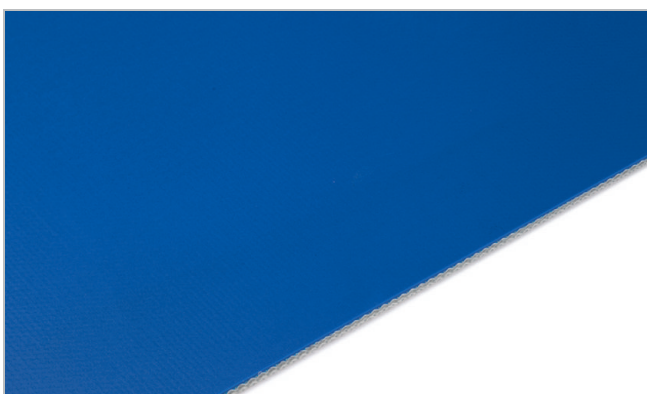
Wood panel and boards

Applications

Food processing/conveying belt, Forming line/spreading belt

Special features

Hydrolysis resistant, Knife-edge (nosebar) suitable, ATEX compliant



Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Matt
Conveying side property	Non-adhesive
Conveying side color	Cobalt blue
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	White

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	1.7 mm	0.07 inch
Mass of belt (belt weight)	1.9 kg/m ²	0.389 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	13 N/mm	74 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	8.5 N/mm	49 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)	0.20 -	
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	4000 mm	157.48 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
Knife-edge (nosebar) radius (minimum)	mm inch	7 0.276
Pulley diameter (minimum)	mm inch	15 0.59
Pulley diameter minimum with counter flection	mm inch	40 1.57
Admissible tensile force per unit of width	N/mm lbf/in	21 120
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	15 86
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		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

Maximum initial elongation: 0.8%! , Recommended initial elongation 0.3 - 0.5%

For details consult 'Storage and handling requirements for belts and machine tapes' or contact Habasit, 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.

Habasit declares this product as a component which is intended for incorporation into ATEX-compliant equipment or assemblies (directive 2014/34/EU). This component fulfills the classification: II 2 GD Ex h IIB 80°C Gc (Qualified for equipment group II; category 2; for groups of agents gas (explosion groups IIA and IIB) and dust; protection achieved by constructional safety; for maximum ambient temperature $\leq +80$ °C), High frequency system HF: Check belt heating! If belt heats up sawdust or fibres will stick

Group	Wood Processing Belts
Sub-Group	Forming Belts
Item number	H010102701

Disclaimer

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