

Monolithic Flat Belts

FNB-02TXCH-U1



Main industry segments

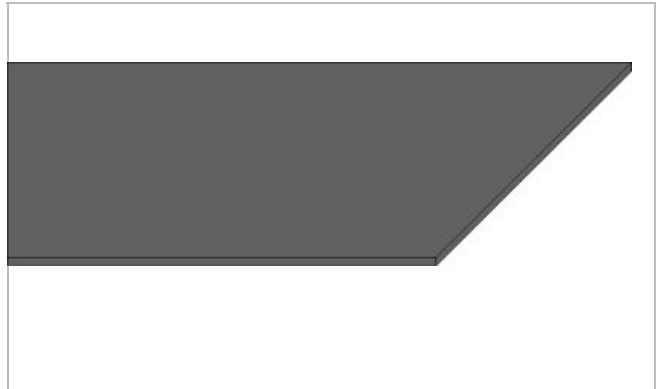
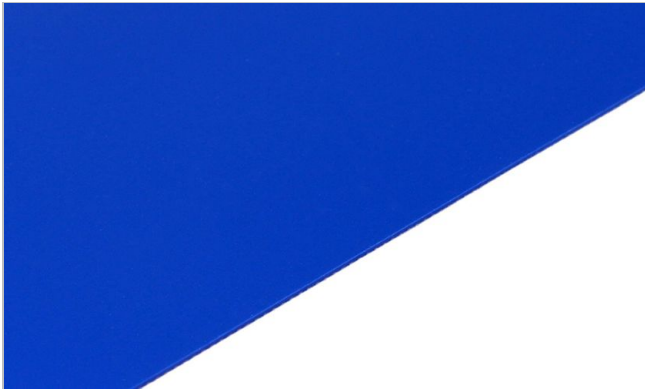
Dairy (incl. cheese), Fish, Frozen food, Poultry, Red meat

Applications

Diverting belt, Packaging belt, Weighing belt

Special features

Abrasion resistant, Edges wear resistant, Elastic, Flexibility in all directions, Hydrolysis resistant, Monolithic Belt, Oil and fat resistant, Small pulley diameter suitable, Suitable for UV-C disinfection



Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Silk finish
Conveying side property	Non-adhesive
Conveying side color	Cobalt blue
Traction layer (material)	Thermoplastic polyurethane (TPU)
Number of Fabrics	0
Pulley side material	Thermoplastic polyurethane (TPU)
Pulley side surface	Fine textile structure
Pulley side color	Cobalt blue

Product characteristics	
Antistatically equipped	No
Adhesive free joining method	Yes
Flammability	No specific flammability prevention property
UV-C suitable	Yes
X-Ray / Metal detector suitable	No
Food suitability, FDA conformance	Yes - acc. to 21CFR parts 170 - 199. Details/restrictions see Habasit food compliance declaration.
Food suitability, USDA recommendations	No use intended
Food suitability, EU conformance	Yes - acc. to Regulation (EC) No. 1935/2004 as well as Regulation (EU) No. 10/2011 and/or other relevant food contact legislation. Details/restrictions see Habasit food compliance declaration.

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Technical data		
Thickness of belt	0.85 mm	0.03 inch
Mass of belt (belt weight)	0.85 kg/m ²	0.174 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	0.20 N/mm	1 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	0.15 N/mm	1 lbf/in
Min. operating temperature admissible (continuous)	-10 °C	14 °F
Max. operating temperature admissible (continuous)	60 °C	140 °F
Coefficient of friction (running side / steel driving pulley)	0.35 -	
Coefficient of friction (running side / stainless steel slider bed)	0.60 -	
Seamless manufacturing width	1500 mm	59.06 inch

Joining related properties

Joining method	
Quickmelt	Master joining method for standard applications
Microflex 15 x 10	Optional joining method
Flexproof 8 x 30	Optional joining method

[Link to JDS:](#)

Joining method		Quickmelt	Microflex 15 x 10	Flexproof 8 x 30
Pulley diameter minimum with counter flection	mm inch	15 0.59	15 0.59	15 0.59
Slider bed suitable		Yes	Yes	Yes
Carrying rollers suitable		Yes	Yes	Yes
Knife edge roller suitable		Yes	Yes	Yes

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554).

Chemical resistance

Link to 'Chemical resistance information': <http://www.habasit.com/en/chemical-resistance.htm>

Mode of use or conveyance

Horizontal

Calculations

For most applications calculation is not required. Should you still need a calculation: please ask Habasit.

Recommendation

Elastic belt: Initial elongation depends on belt load and application

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.

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	Monolithic Flat Belts
Sub-Group	TPU
Item number	H700016145

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