

Food Belts

F-5EXWT-H3



Main industry segments

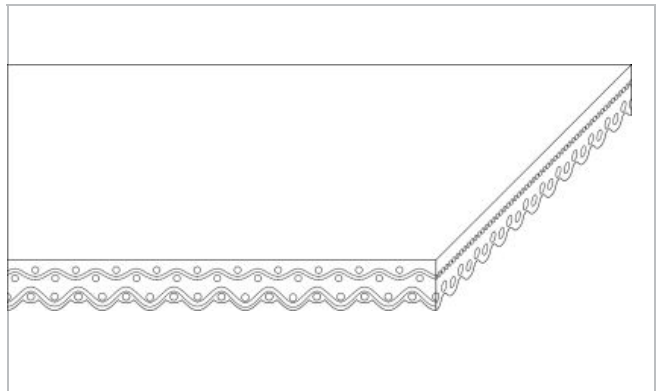
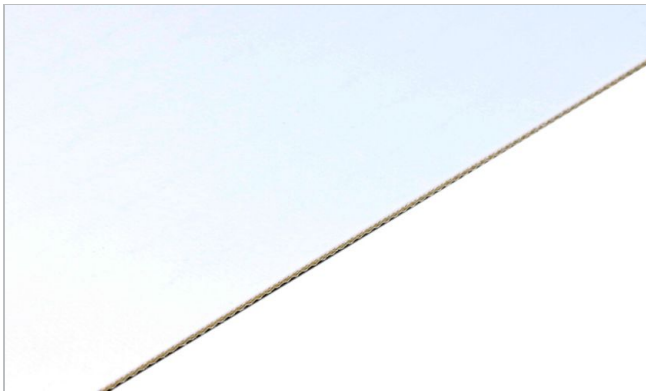
Baked snacks, Biscuit and Crackers, Bread, Chocolate, Convenience food, Frozen food, Pasta, Pastry, Pizza, Primary food packaging, Ready meals

Applications

Cooling (line) belt, Food processing/conveying belt, Infeed belt, Outfeed belt

Special features

Easy cleanability, High temperature resistant



Product Construction / Design

Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Smooth
Conveying side property	Adhesive
Conveying side color	White
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

Technical data		
Thickness of belt	1.20 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)	10 N/mm	57 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	7.0 N/mm	40 lbf/in
Min. operating temperature admissible (continuous)	0 °C	32 °F
Max. operating temperature admissible (continuous)	100 °C	212 °F
Coefficient of friction (pulley side / steel driving pulley)	0.10 -	
Coefficient of friction (pulley side / driving pulley with friction cover)	0.35 -	
Coefficient of friction (pulley side / pickled steel slider bed)	0.15 -	
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	2400 mm	94.49 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	2 0.079
Pulley diameter (minimum)	mm inch	15 0.59
Pulley diameter minimum with counter flection	mm inch	20 0.79
Admissible tensile force per unit of width	N/mm lbf/in	17 97
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	7.5 43
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		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)

If High Frequency (HF) system is used check belt heating, 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, Use cleaning agent as prescribed by the machine or cleaning agent manufacturer

Group	TPU Belts
Sub-Group	General Purpose Belts
Item number	H010102907

Disclaimer

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