

Food Belts FAB-4EBCH



Main industry segments

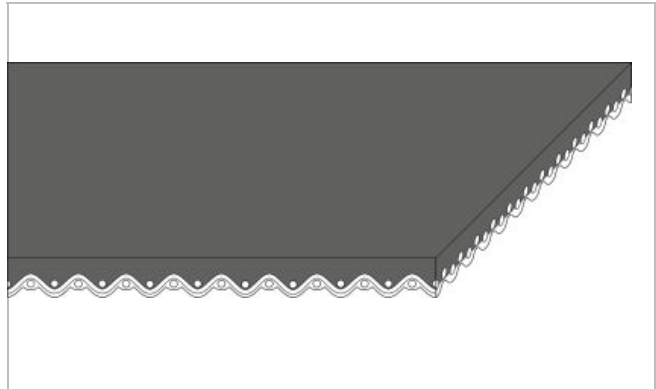
Baked snacks, Chocolate, Pastry, Primary food packaging

Applications

Cutter belt, Powerturn belt

Special features

Flexibility in all directions, High hydrolysis resistant, Knife-edge (nosebar) suitable, Oil and fat resistant, Suitable for UVC disinfection



Product Construction / Design

Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Glossy
Conveying side property	Super-adhesive
Conveying side color	Cobalt blue
Traction layer (material)	Polyester (PET)
Number of Fabrics	1
Pulley side material	Polyester (PET)
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	White

Product characteristics

Antistatically equipped	No
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	Japanese Food Regulation (MHLW Notification No. 370)

Technical data			
Thickness of belt	0.90	mm	0.04 inch
Mass of belt (belt weight)	0.95	kg/m ²	0.195 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	5.5	N/mm	31 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	3.8	N/mm	22 lbf/in
Min. operating temperature admissible (continuous)	-30	°C	-22 °F
Max. operating temperature admissible (continuous)	100	°C	212 °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)	0.20	-	
Coefficient of friction (pulley side / stainless steel slider bed)	0.20	-	
Seamless manufacturing width	2200	mm	86.61 inch
On request other seamless manufacturing width	1550	mm	61 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	3 0.118
Pulley diameter (minimum)	mm inch	15 0.59
Pulley diameter minimum with counter flection	mm inch	15 0.59
Admissible tensile force per unit of width	N/mm lbf/in	9.5 54
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	4.4 25
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		Yes
Powerturns / curved installations		Yes
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

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%

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	TPU Belts
Sub-Group	Hydrolysis Resistant Belts
Item number	H700016165

Disclaimer

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