

# Monolithic Flat Belts

## E-FB12-FC+HB/AR



### Main industry segments

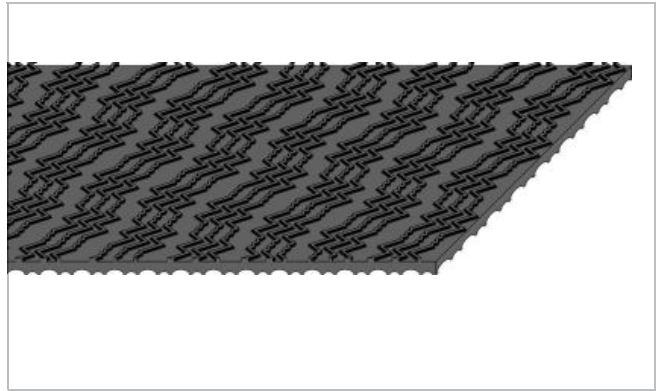
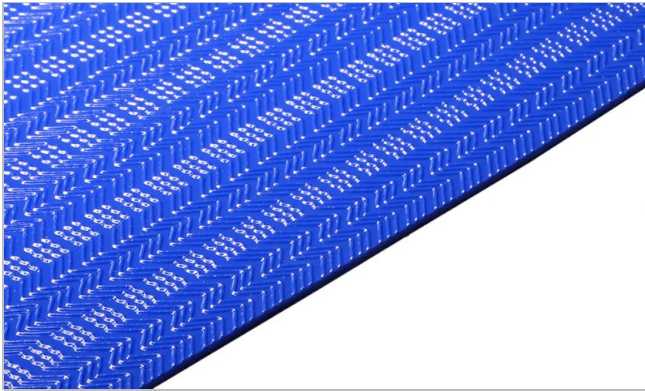
Baked snacks, Biscuit and Crackers, Candy, Chewing gum, Chocolate

### Applications

Weighing belt

### Special features

Abrasion resistant, Edges wear resistant, Elastic, Flexibility in all directions, Monolithic Belt, Non fraying, Oil and fat resistant, Small pulley diameter suitable



Product Construction / Design	
Material	Thermoplastic polyurethane (TPU)
Color	Cobalt blue
Conveying side surface	Heartbeat structure
Conveying side property	Medium-adhesive
Pulley side surface	Coarse textile structure
Pulley side property	Medium-adhesive

Product characteristics	
Antistatically equipped	No
Adhesive free joining method	Yes
Knife edge roller suitable	Yes
Carrying rollers suitable	Yes
Slider bed suitable	Yes
Troughed installation suitable	Yes
Flammability	No specific flammability prevention property
X-Ray / Metal detector suitable	Yes
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	1.20 mm	0.05 inch
Mass of belt (belt weight)	1.4 kg/m <sup>2</sup>	0.277 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	0.30 N/mm	2 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	0.20 N/mm	1 lbf/in
Min. operating temperature admissible (continuous)	-20 °C	-4 °F
Max. operating temperature admissible (continuous)	60 °C	140 °F
Coefficient of friction (pulley side / steel driving pulley)	0.30 -	
Coefficient of friction (pulley side / stainless steel slider bed)	0.50 -	
Coef of Friction UHMWPE 4000 Pulley Side	0.35 -	
Seamless manufacturing width	1350 mm	53.15 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
Knife edge roller diameter (minimum)	mm inch	8.0 0.31	8.0 0.31	8.0 0.31
Pulley diameter (minimum)	mm inch	12 0.47	12 0.47	12 0.47
Pulley diameter minimum with counter flection	mm inch	12 0.47	12 0.47	12 0.47
Admissible tensile force per unit of width	N/mm lbf/in	1.0 6	1.0 6	1.0 6
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	0.20 1	0.20 1	0.20 1

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) ~ 1.0%, Elastic belt: Initial elongation depends on belt load and application

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	Monolithic Elastic Belts
Sub-Group	Flat Belts
Item number	H700017785

### Disclaimer

#### Product Application Disclaimer (valid for ALL Habasit products and mentioned on all PDS)

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