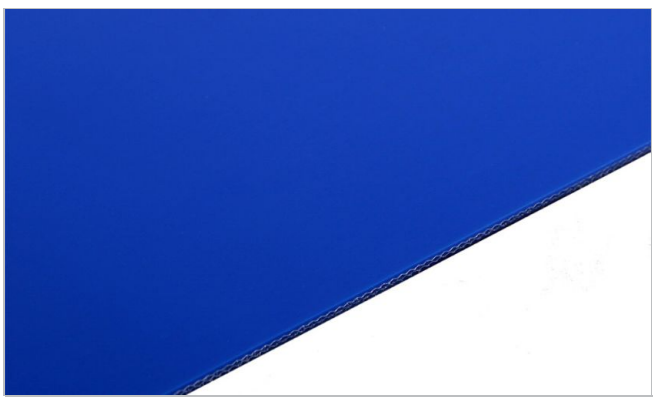
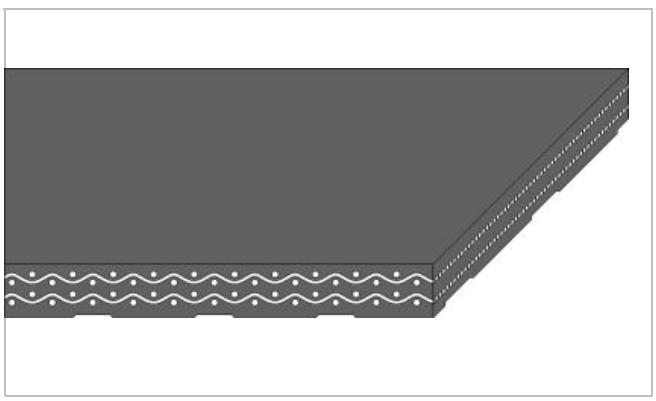
Food Belts
FNB-12EVCQ-P1

Main industry segments
Fruit, Poultry, Red meat, Vegetables

Applications
Food processing/conveying belt

Special features
Abrasion resistant on both sides, Easy cleanability, High hydrolysis resistant, High temperature resistant, Low friction running side, Reverse side coated





Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Matt
Conveying side property	Medium-adhesive
Conveying side color	Cobalt blue
Traction layer (material)	Polyester (PET)
Number of Fabrics	2
Pulley side material	Thermoplastic polyurethane (TPU)
Pulley side surface	Quadrillé (quadrangular) structure
Pulley side property	Medium-adhesive
Pulley side color	Cobalt blue

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	USDA certified for compliance with USDA Dairy Equipment Guidelines and NSF/ANSI/3-A 14159-3 standard for Meat and Poultry Processing. Certification is valid only if belt edges are sealed or belt cords are not exposed and when optional belt accessories like cleats, v-guides and scoops comply with the applicable FDA regulations for the conveyed product. Contact your Habasit representative for detailed information.
Food suitability, EU conformance	Yes - Check Document of Compliance (DoC) in our Portal
Halal certified	Yes

Food Belts
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Technical data				
Thickness of belt	2.2	mm	*0.087*	*inch*
Mass of belt (belt weight)	2.4	kg/m²	*0.492*	*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)	-30	°C	*-22*	*°F*
Max. operating temperature admissible (continuous)	110	°C	*230*	*°F*
Coefficient of friction (pulley side / steel driving pulley)	0.50	-		
Coefficient of friction (pulley side / driving pulley with friction cover)	0.50	-		
Coefficient of friction (pulley side / pickled steel slider bed)	0.55	-		
Coefficient of friction (pulley side / phenolic resin slider bed)	0.55	-		
Coefficient of friction (pulley side / stainless steel slider bed)	0.80	-		
Seamless manufacturing width	2400	mm	*94.49*	*inch*

Joining related properties

Joining method	
Flexproof 20 x 80	Master joining method for standard applications

Link to JDS:

Joining method		Flexproof 20 x 80
Pulley diameter (minimum)	mm *inch*	20 *0.79*
Pulley diameter minimum with counter flection	mm *inch*	25 *0.98*
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*	2.0 *11*
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		No
Knife-edge (nosebar) suitable		No
Low noise applications		No
Designed for metal detector transparency		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.

Food Belts
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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%, Install the slack belt and tension until running perfectly under the full belt load

Store spare belts in a cool and dry place and if possible in their original packaging. Protect spare belts from sunlight/UV-radiation/dust/dirt! Check Link for Storage requirements:
"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 Hydrolysis Resistant Belts
Item number	H950042307

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