Food Belts FSB-5E



Main industry segments

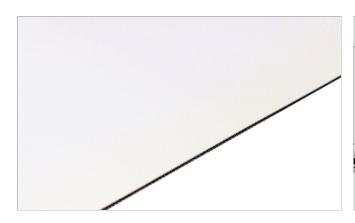
Baked snacks, Biscuit and Crackers, Bread, Chocolate, Pastry

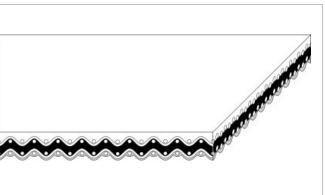
Applications

Acceleration belt, Decline belt, Incline belt, Packaging belt, Transfer belt

Special features

Abrasion resistant, Constant coefficient of friction





Product Construction / Design			
Conveying side material	Thermoplastic polyurethane (TPU)		
Conveying side surface	Glossy		
Conveying side property	Super-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	Gray		

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			

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Technical data					
Thickness of belt	1.30	mm	0.05	inch	
Mass of belt (belt weight)	1.5	kg/m²	0.307	lb/sqft	
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	5.0	N/mm	29	lbf/in	
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	4.0	N/mm	23	lbf/in	
Min. operating temperature admissible (continuous)	-30	°C	-22	°F	
Max. operating temperature admissible (continuous)	80	°C	176	°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)	0.25	-			
Coefficient of friction (pulley side / stainless steel slider bed)	0.15	-			
Seamless manufacturing width	2000	mm	78.74	inch	
On request other seamless manufacturing width	1500	mm	59	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	mm	4
(minimum)	inch	0.157
Pulley diameter (minimum)	mm	15
	inch	0.59
Pulley diameter minimum with	mm	15
counter flection	inch	0.59
Admissible tensile force per unit of	N/mm	10
width	lbf/in	57
Admissible tensile force per unit of	N/mm	7.0
width at max. operating	lbf/in	40
temperature		
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		No
Low noise applications		No
Metal detector suitable		No

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 FSB-5F



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"

If High Frequency (HF) system is used check belt heating, Not suitable for wet operations combined with increased temperatures and with extreme greasy and oily conditions, 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

TPU Belts Group

Sub-Group General Purpose Belts

Item number H010100203

Disclaimer

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