

Food Belts

FAB-5E

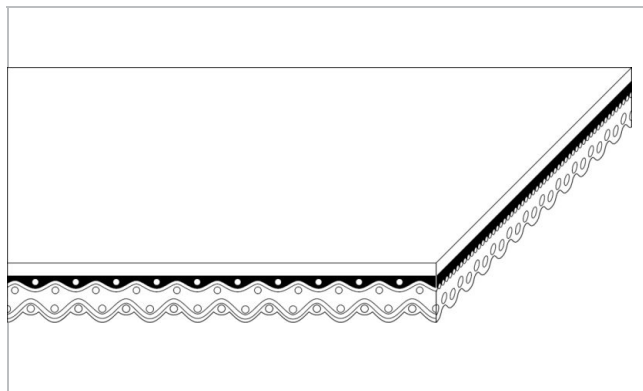


Main industry segments

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

Applications

Decline belt, Delivery belt, Food processing/conveying belt, Incline belt, Rotary cutter belt, Transfer belt, Weighing belt



Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Glossy
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	Light gray

Product characteristics	
Antistatically equipped	Yes
Adhesive free joining method	Ja
Flammability	Successfully tested according to UL 94HB (USA) requirement; HB= Horizontal Burning
Food suitability, FDA conformance	Yes - Check Document of Compliance (DoC) in our Portal
Food suitability, EU conformance	Yes - Check Document of Compliance (DoC) in our Portal
Other conformance/approval	Japanese Food Regulation (MHLW Notification No. 370)
	Halal certified

Technical data			
Thickness of belt	1.30	mm	0.05 tommer
Mass of belt (belt weight)	1.4	kg/m ²	0.287 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	6.0	N/mm	34 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	4.6	N/mm	26 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	-	
Thermal Resistance	0.011	m ² *K/W	0.002 Fft ² h/Btu
Thermal Conductivity	0.128	W/m*K	0.022 W/ft*F
Seamless manufacturing width	4000	mm	157.48 tommer

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 tommer	3 0.118
Pulley diameter (minimum)	mm tommer	15 0.59
Pulley diameter minimum with counter flection	mm tommer	20 0.79
Admissible tensile force per unit of width	N/mm lbf/in	11 63
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	9.5 54
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.

Chemical resistance

Link til informasjon om kemisk resistens <https://rims.habasit.com>

Mode of use or conveyance

Declined, 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

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"](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

Group

Sub-Group

Del nummer

TPU Belts

General Purpose Belts

H010100423

Ansvarsfraskrivelse

Ansvarsfraskrivelse for produktanvendelse (gælder for ALLE Habasit produkter og nævnt på alle produktdatablade)

Denne ansvarsfraskrivelse gælder for Habasit og firmaer, som er tilknyttet os, samt vores chefer, ansatte, agenter og entreprenører (herefter fælles benævnt HABASIT) for de produkter som omfattes af denne tekst (herefter benævnt produkter). SIKKERHEDSADVARSLER SKAL LÆSES OMHYGGELIGT OG ALLE ANBEFALEDE SIKKERHEDSFORSKRIFTER SKAL FØLGES STRENGT! Følg advarslerne som findes i dette dokument, i Habasits kataloger og i installationsanvisninger og håndbøger. Alle indikationer og al information om applicering, anvendelse og ydelse af produktet er anbefalinger, som kan anses for værende pålidelige, men de er ingen fremstilling, garanti eller ansvarsforpligtigelse med hensyn til fuldstændighed, tolerancer eller egnethed til et bestemt formål. Denne information bygger på laboratoriearbejde med mindre testudstyr, kørt ved normaldrift, hvilket indebærer at den ikke nødvendigvis matcher produktionen ved industriel anvendelse. Ny viden og erfaring kan medføre modificeringer og ændringer inden for en kort periode og uden forudgående varsel.

DISSE PRODUKTER OMFATTES AF HABASITS UDTRYKTE GARANTI, SOM ER DEN ENESTE GÆLDENDE GARANTI OG ERSTATTER ALLE ANDRE EVENTUELLE GARANTIER, UDTRYKTE ELLER UNDERFORSTÅEDE. HABASIT FRASKRIVER SIG ALT ANSVAR FOR ALLE ANDRE GARANTIER, UDTRYKTE ELLER UNDERFORSTÅEDE, INKLUSIVE, DOG UDEN AT BEGRÆNSES DERTIL, UNDERFORSTÅEDE GARANTIER OM SALGBARHED, EGNETHED TIL ET BESTEMT FORMÅL, AT PRODUKTERNE IKKE STRIDER MOD NOGLE REGLER, SAMT GARANTIER SOM FØLGE AF AFTALE, ANVENDELSE ELLER HANDEL. DETTE FORBEHOLD GÆLDER I DEN UDSTRÆKNING SOM LOVEN TILLADER. DA FORUDSÆTNINGERNE FOR ANVENDELSE ER UDEN FOR HABASITS KONTROL, KAN VI IKKE TAGE NOGET ANSVAR FOR DE NÆVNTE PRODUKTERS EGNETHED ELLER PROCESTILPASNING. DETTE FORBEHOLD GÆLDER OGSÅ FOR INDIKATIONER FRA PROCESRESULTATER OG OUTPUT.