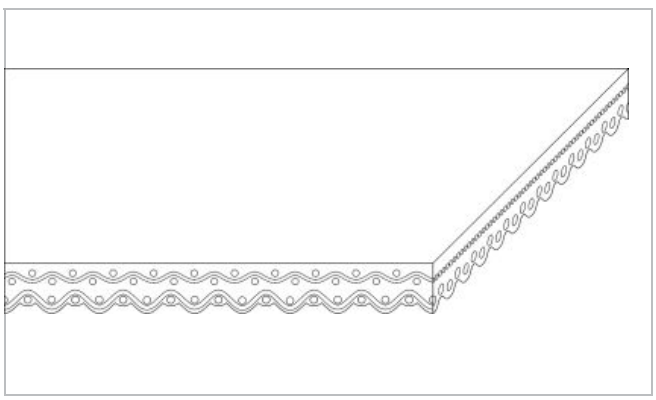
# Food Belts
# F-5EXWT 05

**Main industry segments**
Baked snacks, Biscuit and Crackers, Bread, Chocolate, Convenience food, Frozen food, Pastry, Pizza, Primary food packaging, Ready meals

**Applications**
Cooling (line) belt, Food processing/conveying belt, Infeed belt, Inspection/control belt, Metering/singulation belt, Packaging belt, Transfer belt, Weighing belt

**Special features**
Easy cleanability



| Product Construction / Design | |
|---|---|
| Conveying side material | Thermoplastic polyurethane (TPU) |
| Conveying side surface | Matt |
| Conveying side property | Medium-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 | White |

| 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, EU conformance | Yes - Check Document of Compliance (DoC) in our Portal |
| Halal certified | Yes |
| Other conformance/approval | Japanese Food Regulation (MHLW Notification No. 370) |

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| Technical data | | | | |
|---|---|---|---|---|
| Thickness of belt | 1.20 | mm | *0.047* | *inch* |
| Mass of belt (belt weight) | 1.3 | kg/m² | *0.266* | *lb/sqft* |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155) | 8.5 | N/mm | *49* | *lbf/in* |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 6.0 | N/mm | *34* | *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) | 0.20 | - | | |
| Coefficient of friction (pulley side / stainless steel slider bed) | 0.15 | - | | |
| Seamless manufacturing width | 4000 | mm | *157.48* | *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<br>*inch* | 2<br>*0.079* |
| Pulley diameter (minimum) | mm<br>*inch* | 15<br>*0.59* |
| Pulley diameter minimum with counter flection | mm<br>*inch* | 20<br>*0.79* |
| Admissible tensile force per unit of width | N/mm<br>*lbf/in* | 16<br>*91* |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br>*lbf/in* | 8.5<br>*49* |
| Slider bed suitable | | Yes |
| Carrying rollers suitable | | Yes |
| Troughed installation suitable | | No |
| Powerturns / curved installations | | No |
| Low noise applications | | No |
| 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, 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"

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

| | |
|---|---|
| Group | TPU Belts<br>General Purpose Belts |
| Item number | H010102007 |

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