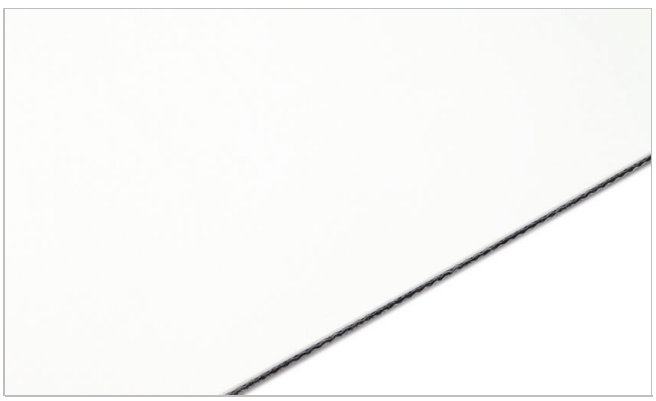
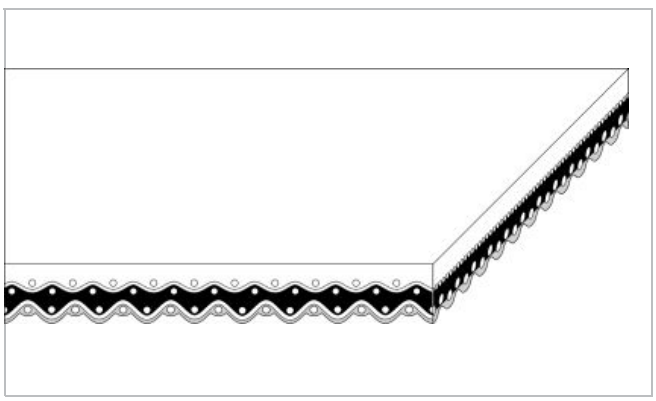
# Food Belts
# FNB-12E

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

**Applications**
Food processing/conveying belt, Packaging belt, Transfer belt

**Special features**
Abrasion resistant, Cut resistant





| Product Construction / Design | |
|---|---|
| Conveying side material | Thermoplastic polyurethane (TPU) |
| Conveying side surface | Matt |
| Conveying side property | Non-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 | 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 | 2.4 | mm | *0.094* | *inch* |
| Mass of belt (belt weight) | 2.7 | kg/m² | *0.553* | *lb/sqft* |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155) | 17 | N/mm | *97* | *lbf/in* |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 12 | N/mm | *69* | *lbf/in* |
| Min. operating temperature admissible (continuous) | -15 | °C | *5* | *°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 | 4000 | mm | *157.48* | *inch* |
| On request other seamless manufacturing width | 2400 | mm | *94* | *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<br>*inch* | 50<br>*1.97* |
| Pulley diameter minimum with counter flection | mm<br>*inch* | 60<br>*2.36* |
| Admissible tensile force per unit of width | N/mm<br>*lbf/in* | 22<br>*126* |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br>*lbf/in* | 9.5<br>*54* |
| 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 |
| 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.*

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**Chemical resistance**
Link to 'Chemical resistance information': https://rims.habasit.com

**Mode of use or conveyance**
Accumulation, 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<br>General Purpose Belts |
| Item number | H010100342 |

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