

# Food Belts

## FSB-2EIW



### Main industry segments

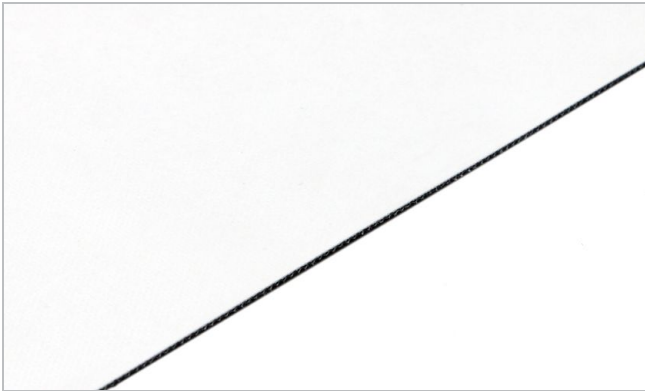
Convenience food, Frozen food, Poultry, Primary food packaging, Ready meals, Red meat

### Applications

Acceleration belt, Deceleration belt, Decline belt, Incline belt, Inspection/control belt, Weighing belt

### Special features

High grip surface



| 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             | 1                                |
| 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, USDA recommendations | No use intended  |
| Food suitability, EU conformance       | Yes - Check Document of Compliance (DoC) in our Portal |

| Technical data  |                        |               |
|---|------------------------|---------------|
| Thickness of belt   | 0.70 mm                | 0.03 inch     |
| Mass of belt (belt weight)  | 0.70 kg/m <sup>2</sup> | 0.143 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)                                  | 3.2 N/mm               | 18 lbf/in     |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 2.2 N/mm               | 13 lbf/in     |
| Min. operating temperature admissible (continuous)  | -40 °C                 | -40 °F        |
| Max. operating temperature admissible (continuous)  | 80 °C                  | 176 °F        |
| Coefficient of friction (pulley side / steel driving pulley)  | 0.10 -                 |               |
| Coefficient of friction (pulley side / driving pulley with friction cover)  | 0.35 -                 |               |
| Coefficient of friction (pulley side / pickled steel slider bed)  | 0.15 -                 |               |
| Coefficient of friction (pulley side / phenolic resin slider bed)   | 0.15 -                 |               |
| Coefficient of friction (pulley side / stainless steel slider bed)  | 0.15 -                 |               |
| Seamless manufacturing width  | 1500 mm                | 59.06 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     | 15<br>0.59        |
| Admissible tensile force per unit of width                               | N/mm<br>lbf/in | 5.5<br>31         |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br>lbf/in | 3.6<br>21         |
| 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 to 'Chemical resistance information': <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%

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.

|             |                       |
|-------------|-----------------------|
| Group       | TPU Belts             |
| Sub-Group   | General Purpose Belts |
| Item number | H700002186            |

## Disclaimer

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