

Monolithic Flat Belts

E-FB20-FC+GR/AR



Main industry segments

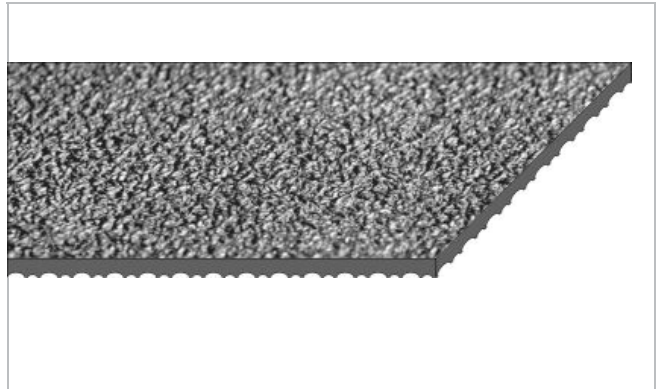
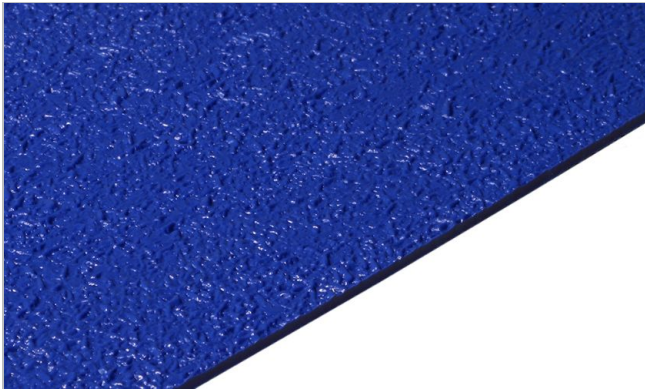
Baked snacks, Biscuit and Crackers, Candy, Chewing gum, Chocolate

Applications

Weighing belt

Special features

Abrasion resistant, Edges wear resistant, Elastic, Flexibility in all directions, Monolithic Belt, Non fraying, Oil and fat resistant, Small pulley diameter suitable



| Product Construction / Design | |
|-------------------------------|----------------------------------|
| Material | Thermoplastic polyurethane (TPU) |
| Color | Cobalt blue |
| Conveying side surface | Grit structure |
| Conveying side property | Medium-adhesive |
| Pulley side surface | Coarse textile structure |
| Pulley side property | Medium-adhesive |

| Product characteristics | |
|--|--|
| Antistatically equipped | No |
| Adhesive free joining method | Yes |
| Knife edge roller suitable | Yes |
| Carrying rollers suitable | Yes |
| Slider bed suitable | Yes |
| Troughed installation suitable | Yes |
| Flammability | No specific flammability prevention property |
| X-Ray / Metal detector suitable | Yes |
| 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 | 2.0 | mm | 0.08 inch |
| Mass of belt (belt weight) | 2.4 | kg/m ² | 0.492 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155) | 0.45 | N/mm | 3 lbf/in |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 0.30 | N/mm | 2 lbf/in |
| Min. operating temperature admissible (continuous) | -20 | °C | -4 °F |
| Max. operating temperature admissible (continuous) | 60 | °C | 140 °F |
| Coefficient of friction (pulley side / steel driving pulley) | 0.30 | - | |
| Coefficient of friction (pulley side / stainless steel slider bed) | 0.50 | - | |
| Coefficient of friction (PE sliding support) | 0.20 | - | |
| Seamless manufacturing width | 1350 | mm | 53.15 inch |

Joining related properties

| Joining method | |
|-------------------|---|
| Quickmelt | Master joining method for standard applications |
| Microflex 15 x 10 | Optional joining method |
| Flexproof 8 x 30 | Optional joining method |

[Link to JDS:](#)

| Joining method | | Quickmelt | Microflex 15 x 10 | Flexproof 8 x 30 |
|--|----------------|--------------|----------------------|---------------------|
| Knife edge roller diameter (minimum) | mm inch | 12.0 0.47 | 12.0 0.47 | 12.0 0.47 |
| Pulley diameter (minimum) | mm inch | 15 0.59 | 15 0.59 | 15 0.59 |
| Pulley diameter minimum with counter flection | mm inch | 15 0.59 | 15 0.59 | 15 0.59 |
| Admissible tensile force per unit of width | N/mm lbf/in | 1.5 9 | 1.5 9 | 1.5 9 |
| Admissible tensile force per unit of width at max. operating temperature | N/mm lbf/in | 0.30 2 | 0.30 2 | 0.30 2 |

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

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) ~ 1.0%, Elastic belt: Initial elongation depends on belt load and application

| | |
|-------------|--------------------------|
| Group | Monolithic Elastic Belts |
| Sub-Group | Flat Belts |
| Item number | H700017776 |

Disclaimer

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