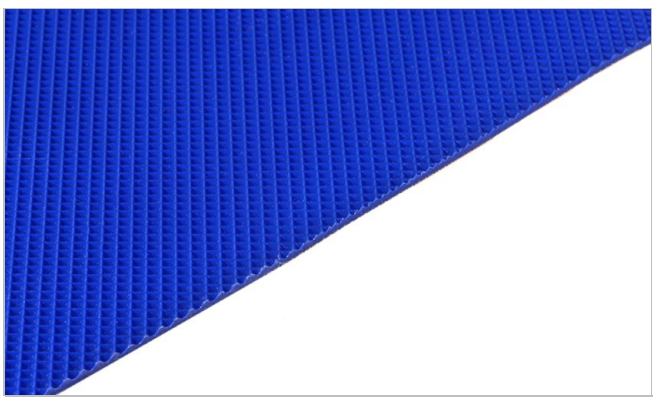
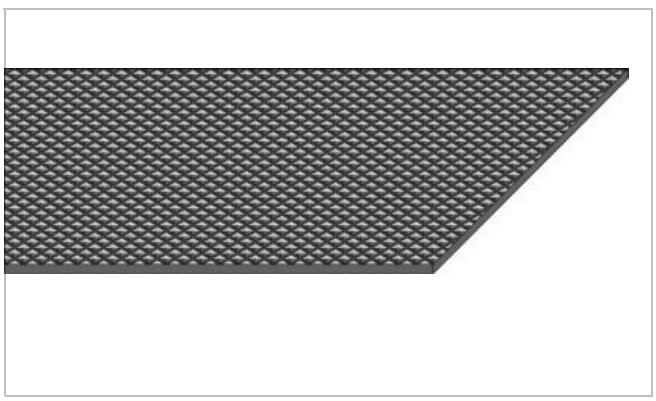
# Monolithic Flat Belts
# CD.F16-N-HC+PN/EH

**Main industry segments**
Baked snacks, Biscuit and Crackers, Candy, Chewing gum, Chocolate, Dough handling

**Applications**
Diverting belt, Dough belt, Infeed belt, Molding, Weighing belt

**Special features**
Abrasion resistant, Edges wear resistant, Elastic, Flexibility in all directions, Hydrolysis resistant, Monolithic Belt, Non fraying, Oil and fat resistant, Small pulley diameter suitable, Suitable for UV-C disinfection, UV resistant





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

| Product characteristics | |
|---|---|
| Antistatically equipped | No |
| Knife edge roller suitable | Yes |
| Antimicrobially equipped | No |
| Slider bed suitable | Yes |
| Carrying rollers suitable | Yes |
| Troughed installation suitable | Yes |
| X-Ray / Metal detector suitable | Yes |
| UV-C suitable | Yes |
| Flammability | No specific flammability prevention property |
| Food suitability, EU conformance | Yes - Check Document of Compliance (DoC) in our Portal |
| Food suitability, FDA conformance | Yes - Check Document of Compliance (DoC) in our Portal |
| Food suitability, USDA recommendations | No use intended |

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| Technical data | | | | |
|---|---|---|---|---|
| Hardness | 89 | Shore A | | |
| Thickness of belt | 1.6 | mm | *0.06* | *inch* |
| Mass of belt (belt weight) | 1.4 | kg/m² | *0.287* | *lb/sqft* |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155) | 0.35 | N/mm | *2* | *lbf/in* |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 0.25 | N/mm | *1* | *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) | 0.45 | - | | |
| Coefficient of friction (pulley side / stainless steel slider bed) | 0.55 | - | | |
| Coefficient of friction (PE sliding support) | 0.40 | - | | |
| 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<br>*inch* | 8<br>*0.315* | 8<br>*0.315* | 8<br>*0.315* |
| Pulley diameter (minimum) | mm<br>*inch* | 15<br>*0.59* | 15<br>*0.59* | 15<br>*0.59* |
| Pulley diameter minimum with counter flection | mm<br>*inch* | 15<br>*0.59* | 15<br>*0.59* | 15<br>*0.59* |
| Admissible tensile force per unit of width | N/mm<br>*lbf/in* | 1.3<br>*7* | 1.3<br>*7* | 1.3<br>*7* |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br>*lbf/in* | 0.25<br>*1* | 0.25<br>*1* | 0.25<br>*1* |

*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

**Calculations**
For most applications calculation is not required. Should you still need a calculation: please ask Habasit.

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**Recommendation**

Do not go below initial elongation (epsilon) ~ 1.0%, Elastic belt: Initial elongation depends on belt load and application

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 | Cleandrive Friction Drive |
| Sub-Group | Monolithic Flat Belts |
| Item number | H700017789 |