

Processing Belts

PM405FBS-BR



Main industry segments

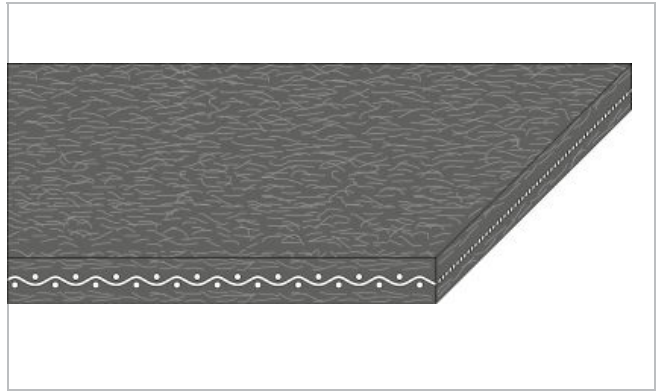
Tobacco green leaf processing, Tobacco primary processing, Tobacco secondary processing

Applications

Live roller drive belt, Packaging belt

Special features

Flexibility, Good lace retention, Low noise applications suitable



| Product Construction / Design | |
|-------------------------------|-------------------------------|
| Conveying side material | Styrol-Butadiene-Rubber (SBR) |
| Conveying side surface | Impregnated fleece |
| Conveying side property | Non-adhesive |
| Conveying side color | Brown |
| Traction layer (material) | Polyester (PET) scrim |
| Number of Fabrics | 1 |
| Pulley side material | Styrol-Butadiene-Rubber (SBR) |
| Pulley side surface | Impregnated fleece |
| Pulley side property | Non-adhesive |
| Pulley side color | Brown |

| Product characteristics | |
|--|--|
| Antistatically equipped | No |
| Adhesive free joining method | Yes |
| Flammability | No specific flammability prevention property |
| Food suitability, FDA conformance | No |
| Food suitability, USDA recommendations | No use intended |
| Food suitability, EU conformance | No |

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| Technical data | | |
|---|-----------------------|---------------|
| Thickness of belt | 2.8 mm | 0.11 inch |
| Mass of belt (belt weight) | 2.9 kg/m ² | 0.590 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155) | 21 N/mm | 120 lbf/in |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 7.4 N/mm | 42 lbf/in |
| Min. operating temperature admissible (continuous) | -12 °C | 10 °F |
| Max. operating temperature admissible (continuous) | 79 °C | 175 °F |
| Coefficient of friction (pulley side / steel driving pulley) | 0.25 - | |
| Coefficient of friction (pulley side / driving pulley with friction cover) | 0.40 - | |
| Coefficient of friction (pulley side / pickled steel slider bed) | 0.30 - | |
| Coefficient of friction (pulley side / phenolic resin slider bed) | 0.30 - | |
| Coefficient of friction (pulley side / stainless steel slider bed) | 0.25 - | |
| Seamless manufacturing width | 1524 mm | 60.00 inch |

Joining related properties

| Joining method | |
|-------------------|---|
| Flexproof 20 x 80 | Master joining method for standard applications |
| Alligator #7 | Optional joining method |
| Clipper #1 | Optional joining method |

[Link to JDS:](#)

| Joining method | | Flexproof 20 x 80 | Alligator #7 | Clipper #1 |
|--|----------------|----------------------|--------------|------------|
| Pulley diameter (minimum) | mm inch | 64 2.50 | 64 2.50 | 64 2.50 |
| Pulley diameter minimum with counter flection | mm inch | 64 2.50 | 64 2.50 | 64 2.50 |
| Admissible tensile force per unit of width | N/mm lbf/in | 6.5 37 | | |
| Admissible tensile force per unit of width at max. operating temperature | N/mm lbf/in | 3.3 19 | | |
| Slider bed suitable | | Yes | Yes | Yes |
| Carrying rollers suitable | | Yes | Yes | Yes |
| Troughed installation suitable | | No | No | No |
| Powerturns / curved installations | | No | No | No |
| Knife-edge (nosebar) suitable | | No | No | No |
| Low noise applications | | Yes | Yes | Yes |
| Metal detector suitable | | Yes | Yes | 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, Live roller drive

Calculations

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

Recommendation

Install the slack belt and tension until running perfectly under the full belt load

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. Check Link for Storage requirements:

["https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf"](https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf)

No danger and limitation

| | |
|-------------|-------------------------|
| Group | Nonwoven Belts |
| Sub-Group | Polymate Nonwoven Belts |
| Item number | H250000420 |

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