

Processing Belts

PM405FBS-BR



Main industry segments

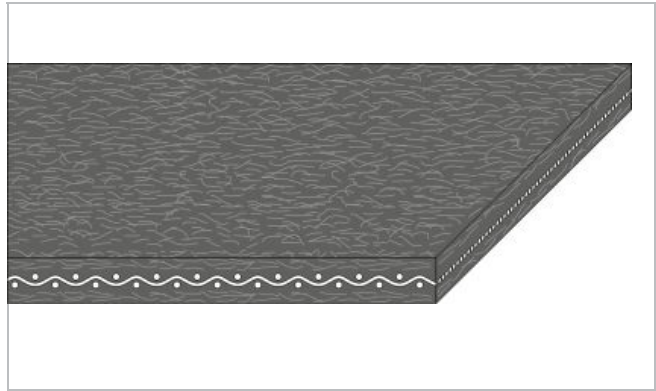
Tobacco green leaf processing, Tobacco primary processing, Tobacco secondary processing

Applications

Live roller drive belt, Packaging belt

Special features

Flexibility, Good lace retention, Low noise applications suitable



Product Construction / Design	
Conveying side material	Styrene-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	Styrene-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

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"](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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