

Heavy Conveyor Belts

UM220-G 18



Main industry segments

Airport, Car assembly, Cardboard converting, Cardboard manufacturing, Glass, Metal sheets and components, Plastics, Tire, Wood panel and boards, Wood surfacing

Applications

Bridge elevator belt, Cutter belt, Magnetic conveyor belt, Powerturn belt, Stamping belt

Special features

Abrasion resistant on both sides, Adhesive-free joint, Cut resistant, Edges wear resistant, Flexibility in all directions, Good lace retention, Impact resistant, Low friction conveying side, Low friction running side, Low noise applications suitable, No delamination, Non fraying, Non-marking, Oil resistant, Reverse bending, Solvent resistant, Special oil resistance for metal working, High lateral stability



Product Construction / Design	
Conveying side material	Polyester (PET) fleece
Conveying side surface	Impregnated fleece
Conveying side property	Non-adhesive
Conveying side color	Light green
Traction layer (material)	Polyester (PET) scrim
Number of Fabrics	1
Pulley side material	Polyester (PET) fleece
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	Light green

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

This product may not be suitable for tracking in the reverse direction. Please test on the specific conveyor.

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Technical data			
Thickness of belt	5.6 mm	0.22 inch	
Mass of belt (belt weight)	3.4 kg/m ²	0.700 lb/sqft	
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	19 N/mm	110 lbf/in	
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	10.0 N/mm	57 lbf/in	
Min. operating temperature admissible (continuous)	-12 °C	10 °F	
Max. operating temperature admissible (continuous)	80 °C	176 °F	
Coefficient of friction (pulley side / steel driving pulley)	0.20 -		
Coefficient of friction (pulley side / driving pulley with friction cover)	0.35 -		
Coefficient of friction (pulley side / pickled steel slider bed)	0.35 -		
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	2007 mm	79.00 inch	
On request other seamless manufacturing width	1524 mm	60 inch	

Joining related properties

Joining method	
Hidden Flex 20 x 80	Master joining method for standard applications
Thermofix	Optional joining method
Clipper #3	Optional joining method

[Link to JDS:](#)

Joining method		Hidden Flex 20 x 80	Thermofix	Clipper #3
Pulley diameter (minimum)	mm inch	102 4.00	102 4.00	90 3.54
Pulley diameter minimum with counter flection	mm inch	102 4.00	102 4.00	90 3.54
Admissible tensile force per unit of width	N/mm lbf/in	14 82		
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	8.6 49		
Slider bed suitable		Yes	Yes	Yes
Carrying rollers suitable		Yes	Yes	Yes
Troughed installation suitable		No	No	No
Powerturns / curved installations		Yes	Yes	Yes
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

Carrying roller, Curved, Horizontal, Side loading, Slider bed

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%

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)

Exposure to water may cause a foaming on the surface of the belt. This does not affect the physical properties of the belt but could result in a residue left on the conveyed articles. This residue is easily cleaned by use of a damp cloth

Group	Nonwoven Belts
Sub-Group	Rubber Saturated Ulti-Mate Belts
Item number	H250000522

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