

Heavy Conveyor Belts

UM220SC-B-N2



Main industry segments

Cardboard converting, Cardboard manufacturing, Distribution centers, Plastics, Wood panel and boards, Wood surfacing

Applications

Powerturn belt, Processing belt, Punching belt, Stamping belt

Special features

Abrasion resistant on both sides, Adhesive-free joint, Antistatic, Chemical resistant, Cut resistant, Flexibility in all directions, Good lace retention, Impact resistant, No delamination, Non-marking, Oil resistant, Powerturn suitable, Solvent resistant, Special oil resistance for metal working



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

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	5.5 mm	0.22	inch
Mass of belt (belt weight)	3.4 kg/m ²	0.696	lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	7.0 N/mm	40	lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	3.8 N/mm	22	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)	0.15	-	
Coefficient of friction (pulley side / driving pulley with friction cover)	0.35	-	
Coefficient of friction (pulley side / pickled steel slider bed)	0.20	-	
Coefficient of friction (pulley side / phenolic resin slider bed)	0.20	-	
Coefficient of friction (pulley side / stainless steel slider bed)	0.15	-	
Seamless manufacturing width	2200 mm	86.61	inch

Air permeability: 15 - 30 l/dm² min. @200 Pa

Joining related properties

Joining method	
Hidden Flex 20 x 80	Master joining method for standard applications

[Link to JDS:](#)

Joining method		Hidden Flex 20 x 80
Pulley diameter (minimum)	mm	100
	inch	3.94
Pulley diameter minimum with counter flection	mm	100
	inch	3.94
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		Yes
Knife-edge (nosebar) suitable		No
Low noise applications		Yes
Metal detector suitable		No

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

Check Link for Storage requirements:

"<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	H950038251

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