Heavy Conveyor Belts UM220SC-B-N



Main industry segments

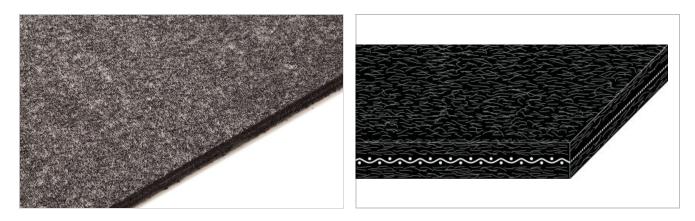
Cardboard converting, Cardboard manufacturing, Distribution centers, Plastics, Wood panel and boards, Wood surfacing

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	Yes		
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)	2.9	kg/m²	0.594	lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	11	N/mm	63	lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	5.0	N/mm	29	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 / stainless steel slider bed)	0.20	-		
Seamless manufacturing width	2000	mm	78.74	inch

Joining related properties

Joining method				
Hidden Flex 20 x 80	Master joining method for standard applications			
<u>Link to JDS:</u>				
Joining method		Hidden Flex 20 x 80		
Pulley diameter (minimum)	mm <i>inch</i>	80 <i>3.15</i>		
Pulley diameter minimum with counter flection	mm <i>inch</i>	100 <i>3.94</i>		
Admissible tensile force per unit of width	N/mm <i>Ibf/in</i>	12 69		
Admissible tensile force per unit of width at max. operating temperature	N/mm Ibf/in	11 63		
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 convevance

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 Sub-Group Item number Nonwoven Belts Rubber Saturated Ulti-Mate Belts H950032606

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