

# Heavy Conveyor Belts

## UM100SC-B



### Main industry segments

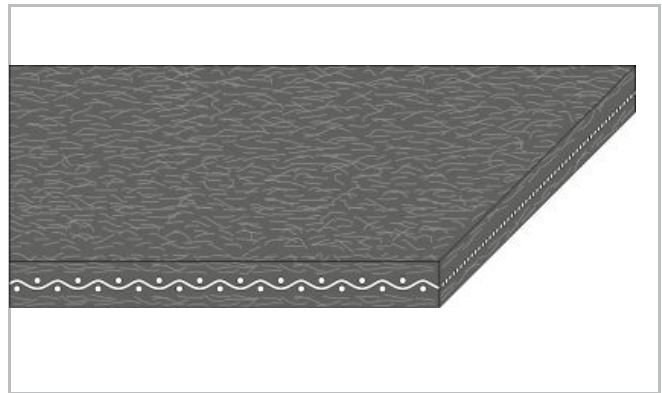
Airport, Metal sheets and components, Automotive components, Cardboard converting, Cardboard manufacturing, Electronics, Paper manufacturing and processing, Plastics

### Applications

Accumulation belt, Blanking belt, Bridge elevator belt, Diverting belt, Infeed belt, Light package handling, Magnetic conveyor belt, Merge belt, Power turn belt, Transfer belt

### Special features

Abrasion resistant on both sides, Adhesive-free joint, Air permeability, Antistatic, Bi-directional suitable, Chemical resistant, Cut resistant, Dimensionally stable, Edges wear resistant, Excellent tracking, Flexibility in all directions, Good lace retention, Impact resistant, Longitudinal flexibility, Low noise applications suitable, No delamination, Non fraying, Non-hygroscopic, Oil resistant, Powerturn suitable, Solvent resistant, Water resistant, Wear resistant



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 - fulfills EN 12882
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	2.5 mm	0.10 inch
Mass of belt (belt weight)	2.1 kg/m <sup>2</sup>	0.424 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	20 N/mm	115 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	7.7 N/mm	44 lbf/in
Min. operating temperature admissible (continuous)	-10 °C	14 °F
Max. operating temperature admissible (continuous)	80 °C	176 °F
Coefficient of friction (running side / steel driving pulley)	0.25 -	
Coefficient of friction (running side / driving pulley with friction cover)	0.35 -	
Coefficient of friction (running side / pickled steel slider bed)	0.40 -	
Coefficient of friction (running side / phenolic resin slider bed)	0.35 -	
Coefficient of friction (running side / stainless steel slider bed)	0.30 -	
Seamless manufacturing width	2007 mm	79 inch
On request other seamless manufacturing width	1524 mm	60 inch

### Joining related properties

Joining method	
Flexproof 20 x 80	Master joining method for standard applications
Thermofix	Optional joining method
Clipper UCM-36	Optional joining method

[Link to JDS:](#)

Joining method		Flexproof 20 x 80	Thermofix	Clipper UCM-36
Pulley diameter (minimum)	mm inch	25 1.00	25 1.00	25 1.00
Pulley diameter minimum with counter flection	mm inch	25 1.00	25 1.00	25 1.00
Admissible tensile force per unit of width	N/mm lbf/in	13 73		
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	7.7 44		
Slider bed suitable		Yes	Yes	Yes
Carrying rollers suitable		Yes	Yes	Yes
Troughed installation suitable		No	No	No
Power turns / curved installations		Yes	Yes	Yes
Nosebar suitable		No	No	No
Low noise applications		Yes	Yes	Yes
Metal detector suitable		No	No	No

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554).

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### Chemical resistance

Link to 'Chemical resistance information': <http://www.habasit.com/en/chemical-resistance.htm>

### Mode of use or conveyance

Carrying roller, Curved, Discharge, Diverting, 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%

For details consult 'Storage and handling requirements for belts and machine tapes' or contact Habasit

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	H250000497

### Disclaimer

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