

# Heavy Conveyor Belts

## UM155SC-B 18



### Main industry segments

Airport, Automotive components, Car assembly, Cardboard converting, Cardboard manufacturing, Distribution centers, Electronics, Metal sheets and components, Plastics, Wood panel and boards, Wood surfacing

### Applications

Blanking belt, Bridge elevator belt, Light package handling, Magnetic conveyor belt, Powerturn belt, Stamping belt, Loading/Unloading belt

### Special features

Adhesive-free joint, Antistatic, Chemical resistant, Cut resistant, Flexibility in all directions, Good lace retention, Impact resistant, Low noise applications suitable, Oil resistant, Powerturn suitable, Solvent 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 / Categorie 1
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	3.9 mm	0.16 inch
Mass of belt (belt weight)	2.4 kg/m <sup>2</sup>	0.500 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)	7.0 N/mm	40 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)	0.30 -	
Coefficient of friction (pulley side / phenolic resin slider bed)	0.25 -	
Coefficient of friction (pulley side / stainless steel slider bed)	0.20 -	
Seamless manufacturing width	2007 mm	79.00 inch

### Joining related properties

Joining method	
Hidden Flex 20 x 80	Master joining method for standard applications
Thermofix	Optional joining method
Clipper #2 SP	Optional joining method

[Link to JDS:](#)

Joining method		Hidden Flex 20 x 80	Thermofix	Clipper #2 SP
Pulley diameter (minimum)	mm inch	51 2.00	51 2.00	51 2.00
Pulley diameter minimum with counter flection	mm inch	51 2.00	51 2.00	51 2.00
Admissible tensile force per unit of width	N/mm lbf/in	11 64		
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	9.3 53		
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		No	No	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%

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	H250000521

### Disclaimer

#### Product Application Disclaimer (valid for ALL Habasit products and mentioned on all PDS)

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