

# 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      | Ja                                           |
| Flammability                      | No specific flammability prevention property |
| Food suitability, FDA conformance | No                                           |
| Food suitability, EU conformance  | No                                           |

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| Technical data                                                                                                              |                       |       |         |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|-------|---------|
| Thickness of belt                                                                                                           | 3.9 mm                | 0.16  | tommer  |
| 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 | tommer  |

### 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<br>tommer   | 51<br>2.00          | 51<br>2.00 | 51<br>2.00    |
| Pulley diameter minimum with counter flection                            | mm<br>tommer   | 51<br>2.00          | 51<br>2.00 | 51<br>2.00    |
| Admissible tensile force per unit of width                               | N/mm<br>lbf/in | 11<br>64            |            |               |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br>lbf/in | 9.3<br>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 til informasjon om kemisk resistens <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 |
| Del nummer | H250000521                       |

### Ansvarsfraskrivelse

#### Ansvarsfraskrivelse for produktanvendelse (gælder for ALLE Habasit produkter og nævnt på alle produktdatablade)

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DISSE PRODUKTER OMFATTES AF HABASITS UDTRYKTE GARANTI, SOM ER DEN ENESTE GÆLDENDE GARANTI OG ERSTATTER ALLE ANDRE EVENTUELLE GARANTIER, UDTRYKTE ELLER UNDERFORSTÅEDE. HABASIT FRASKRIVER SIG ALT ANSVAR FOR ALLE ANDRE GARANTIER, UDTRYKTE ELLER UNDERFORSTÅEDE, INKLUSIVE, DOG UDEN AT BEGRÆNSES DERTIL, UNDERFORSTÅEDE GARANTIER OM SALGBARHED, EGNETHED TIL ET BESTEMT FORMÅL, AT PRODUKTERNE IKKE STRIDER MOD NOGLE REGLER, SAMT GARANTIER SOM FØLGE AF AFTALE, ANVENDELSE ELLER HANDEL. DETTE FORBEHOLD GÆLDER I DEN UDSTRÆKNING SOM LOVEN TILLADER. DA FORUDSÆTNINGERNE FOR ANVENDELSE ER UDEN FOR HABASITS KONTROL, KAN VI IKKE TAGE NOGET ANSVAR FOR DE NÆVNTE PRODUKTERS EGNETHED ELLER PROCESTILPASNING. DETTE FORBEHOLD GÆLDER OGSÅ FOR INDIKATIONER FRA PROCESRESULTATER OG OUTPUT.