

# Heavy Conveyor Belts

## UM155DCT-B



### Main industry segments

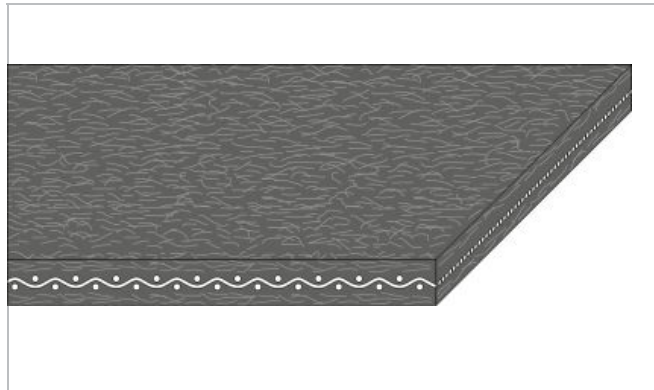
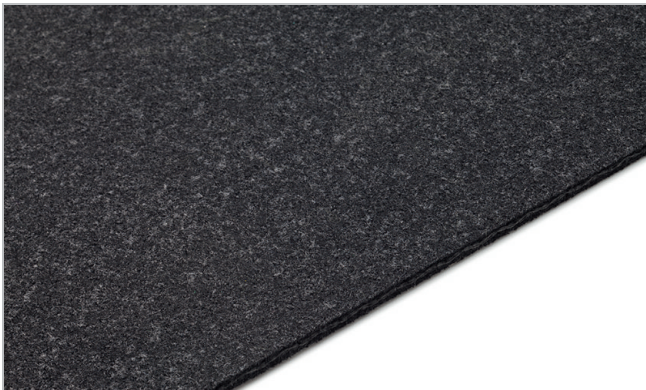
Textile others

### Applications

Cutter 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, Flexibility in all directions, Impact resistant, Longitudinal flexibility, Low noise applications suitable, No delamination, Non fraying, Non-hygroscopic, Oil resistant, 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 / Categorie 1        |
| Adhesive free joining method           | Ja                                           |
| 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                                                                                                           | 4.0 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)                                  | 20 N/mm               | 114 lbf/in    |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 6.0 N/mm              | 34 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)                                                                | 0.25 -                |               |
| Coefficient of friction (pulley side / driving pulley with friction cover)                                                  | 0.30 -                |               |
| Coefficient of friction (pulley side / pickled steel slider bed)                                                            | 0.35 -                |               |
| Coefficient of friction (pulley side / phenolic resin slider bed)                                                           | 0.35 -                |               |
| Coefficient of friction (pulley side / stainless steel slider bed)                                                          | 0.30 -                |               |
| Seamless manufacturing width                                                                                                | 2000 mm               | 78.75 tommer  |
| On request other seamless manufacturing width                                                                               | 1829 mm               | 72 tommer     |
| On request further seamless manufacturing width                                                                             | 1397 mm               | 55 tommer     |

Longitudinal tear resistance: 800 N / 180 lbf; Air Permeability - Measure according to DIN ISO 9237 / ASTM D737: @200 Pa = 11.0 L.sec-1/sq.m; @ 0.5 inch water = 2.3 cu.ft.min-1/sq.ft @500 Pa = 27.0 L.sec-1/sq.m; @ 2.0 inch water = 9.0 cu.ft.min-1/sq.ft; Pa = Pressure in Pascals (100 Pa = 1 mbar).

### Joining related properties

| Joining method    |                                                 |
|-------------------|-------------------------------------------------|
| Flexproof 20 x 80 | Master joining method for standard applications |
| Thermofix         | Optional joining method                         |

[Link to JDS:](#)

| Joining method                                                           |                       | Flexproof<br>20 x 80 | Thermofix         |
|--------------------------------------------------------------------------|-----------------------|----------------------|-------------------|
| Pulley diameter (minimum)                                                | mm<br><i>tommer</i>   | 25<br><i>1.00</i>    | 25<br><i>1.00</i> |
| Pulley diameter minimum with counter flection                            | mm<br><i>tommer</i>   | 25<br><i>1.00</i>    | 25<br><i>1.00</i> |
| Admissible tensile force per unit of width                               | N/mm<br><i>lbf/in</i> | 13<br><i>73</i>      |                   |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br><i>lbf/in</i> | 7.7<br><i>44</i>     |                   |
| Slider bed suitable                                                      |                       | Yes                  | Yes               |
| Carrying rollers suitable                                                |                       | Yes                  | Yes               |
| Troughed installation suitable                                           |                       | No                   | No                |
| Powerturns / curved installations                                        |                       | Yes                  | Yes               |
| Knife-edge (nosebar) suitable                                            |                       | No                   | No                |
| Low noise applications                                                   |                       | Yes                  | Yes               |
| Metal detector suitable                                                  |                       | 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

Horizontal

## 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 | H250001453                       |

## Ansvarsfraskrivelse

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

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