

# Heavy Conveyor Belts

## UM155DCT-BE



### Main industry segments

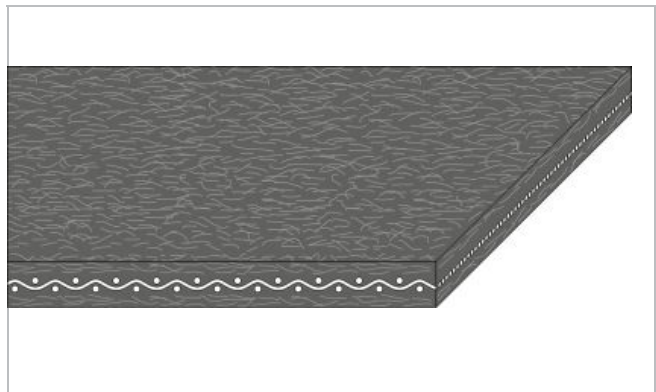
Textile others

### Applications

Cutter belt

### Special features

Abrasion resistant on both sides, Adhesive-free joint, Air permeability, 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	Blue
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	Blue

Product characteristics	
Antistatically equipped	No
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	4.0 mm	0.16 inch
Mass of belt (belt weight)	2.6 kg/m <sup>2</sup>	0.530 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	17 N/mm	97 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	4.5 N/mm	26 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)	0.30 -	
Coefficient of friction (pulley side / pickled steel slider bed)	0.25 -	
Coefficient of friction (pulley side / phenolic resin slider bed)	0.30 -	
Coefficient of friction (pulley side / stainless steel slider bed)	0.25 -	
Seamless manufacturing width	2000 mm	78.75 inch
On request other seamless manufacturing width	1829 mm	72 inch
On request further seamless manufacturing width	1397 mm	55 inch

Longitudinal tear resistance: 712 N / 160 lbf; Air Permeability - Measure according to DIN ISO 9237 / ASTM D737: @200 Pa = 13.7 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 20 x 80	Thermofix
Pulley diameter (minimum)	mm inch	25 1.00	25 1.00
Pulley diameter minimum with counter flection	mm inch	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
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 to 'Chemical resistance information': <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
Item number	H250001656

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