

Heavy Conveyor Belts

UM100SC-B-N



Main industry segments

Airport, Automotive components, Cardboard converting, Cardboard manufacturing, Electronics, Metal sheets and components, 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, Powerturn 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 |
| 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 | 2.6 mm | 0.10 inch |
| Mass of belt (belt weight) | 1.4 kg/m ² | 0.287 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155) | 10 N/mm | 57 lbf/in |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 5.0 N/mm | 29 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 / stainless steel slider bed) | 0.20 - | |
| Seamless manufacturing width | 2000 mm | 78.74 inch |

Joining related properties

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

[Link to JDS:](#)

| Joining method | | Flexproof 20 x 80 |
|--|----------------|----------------------|
| Pulley diameter (minimum) | mm inch | 25 0.98 |
| Pulley diameter minimum with counter flection | mm inch | 60 2.36 |
| Admissible tensile force per unit of width | N/mm lbf/in | 7.0 40 |
| Admissible tensile force per unit of width at max. operating temperature | N/mm lbf/in | 3.6 21 |
| Slider bed suitable | | Yes |
| Carrying rollers suitable | | Yes |
| Troughed installation suitable | | No |
| Powerturns / curved installations | | Yes |
| Knife-edge (nosebar) suitable | | No |
| Low noise applications | | Yes |
| Metal detector suitable | | 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, 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%

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 | H950032454 |

Disclaimer

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