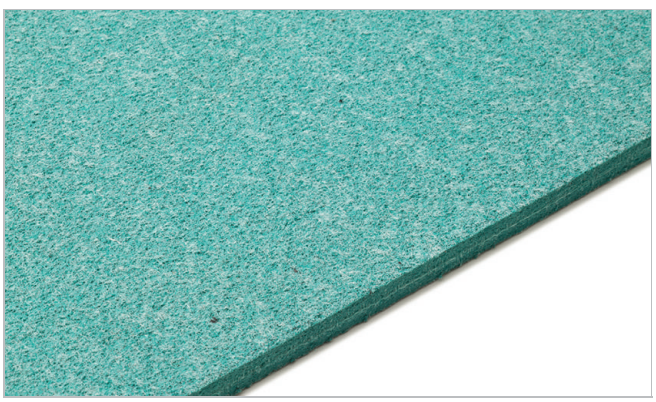
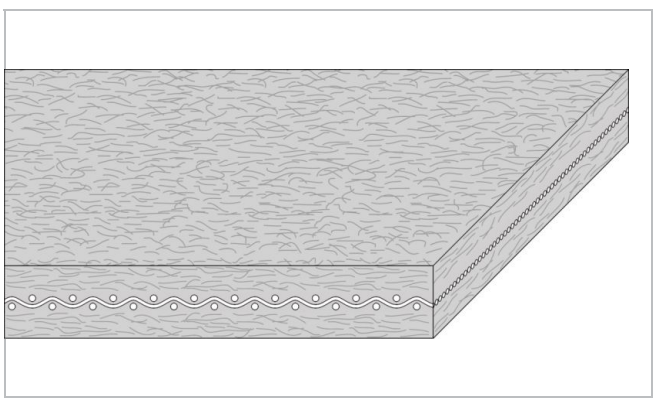
# Heavy Conveyor Belts
# UM155-G

**Main industry segments**
Airport, Car assembly, Cardboard converting, Cardboard manufacturing, Distribution centers, Electronics, Glass, Metal sheets and components, Plastics, Tire, Wood panel and boards, Wood surfacing

**Applications**
Bridge elevator belt, Cutter belt, Light package handling, Magnetic conveyor belt, Powerturn belt, Stamping belt

**Special features**
Abrasion resistant on both sides, Adhesive-free joint, Chemical resistant, Cut resistant, Edges wear resistant, Flexibility in all directions, Good lace retention, Impact resistant, Low friction conveying side, Low friction running side, Low noise applications suitable, No delamination, Non-marking, Oil resistant, Reverse bending, Solvent resistant, Special oil resistance for metal working, High lateral stability





| Product Construction / Design | |
|---|---|
| Conveying side material | Polyester (PET) fleece |
| Conveying side surface | Impregnated fleece |
| Conveying side property | Non-adhesive |
| Conveying side color | Light green |
| 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 | Light green |

| Product characteristics | |
|---|---|
| Antistatically equipped | No |
| Adhesive free joining method | Yes |
| Flammability | No specific flammability prevention property |
| Food suitability, FDA conformance | No |
| Food suitability, EU conformance | No |

# Heavy Conveyor Belts
# UM155-G

| Technical data | | | | |
|---|---|---|---|---|
| Thickness of belt | 3.8 | mm | *0.150* | *inch* |
| Mass of belt (belt weight) | 2.1 | kg/m² | *0.430* | *lb/sqft* |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155) | 24 | N/mm | *135* | *lbf/in* |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 8.6 | N/mm | *49* | *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) | 0.40 | - | | |
| 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 | 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<br>*inch* | 51<br>*2.00* | 51<br>*2.00* | 51<br>*2.00* |
| Pulley diameter minimum with counter flection | mm<br>*inch* | 51<br>*2.00* | 51<br>*2.00* | -1<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.*

# Heavy Conveyor Belts
# UM155-G

**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"

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 |
| | Rubber Saturated Ulti-Mate Belts |
| Item number | H250000520 |

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