

# Light Conveyor Belts DC249



## Main industry segments

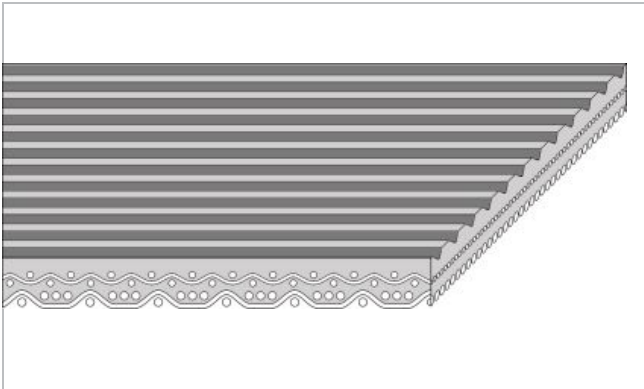
Distribution centers, General conveying, Letter sorting

## Applications

Acceleration belt, Deceleration belt, Transfer belt

## Special features

Abrasion resistant, High coefficient of friction surface, Oil and fat resistant, Small pulley diameter suitable



| Product Construction / Design |                                  |
|-------------------------------|----------------------------------|
| Conveying side material       | Thermoplastic polyurethane (TPU) |
| Conveying side surface        | Longitudinal groove structure    |
| Conveying side property       | Super-adhesive                   |
| Conveying side color          | Green                            |
| Traction layer (material)     | Polyester (PET)                  |
| Number of Fabrics             | 2                                |
| Pulley side material          | Polyester (PET)                  |
| Pulley side surface           | Fabric                           |
| Pulley side property          | Non-adhesive                     |
| Pulley side color             | Gray                             |

| 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   |

# Light Conveyor Belts DC249



| Technical data  |                       |               |
|---|-----------------------|---------------|
| Thickness of belt   | 2.2 mm                | 0.09 inch     |
| Mass of belt (belt weight)  | 2.3 kg/m <sup>2</sup> | 0.471 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) | 7.5 N/mm              | 43 lbf/in     |
| Min. operating temperature admissible (continuous)  | -30 °C                | -22 °F        |
| Max. operating temperature admissible (continuous)  | 80 °C                 | 176 °F        |
| Coefficient of friction (pulley side / steel driving pulley)  | 0.15 -                |               |
| Coefficient of friction (pulley side / driving pulley with friction cover)  | 0.35 -                |               |
| Coefficient of friction (pulley side / pickled steel slider bed)  | 0.20 -                |               |
| Coefficient of friction (pulley side / phenolic resin slider bed)   | 0.20 -                |               |
| 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 10 x 80 | Master joining method for standard applications |

[Link to JDS:](#)

| Joining method   |                | Flexproof<br>10 x 80 |
|--|----------------|----------------------|
| Pulley diameter (minimum)  | mm<br>inch     | 30<br>1.18           |
| Pulley diameter minimum with counter flection                            | mm<br>inch     | 80<br>3.15           |
| Admissible tensile force per unit of width                               | N/mm<br>lbf/in | 11<br>63             |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br>lbf/in | 6.0<br>34            |
| Slider bed suitable  |                | Yes                  |
| Carrying rollers suitable  |                | Yes                  |
| Troughed installation suitable   |                | No                   |
| Powerturns / curved installations  |                | No                   |
| Knife-edge (nosebar) suitable  |                | No                   |
| Low noise applications   |                | Yes                  |
| Metal detector suitable  |                | Yes                  |

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.

# Light Conveyor Belts DC249



## Chemical resistance

Link to 'Chemical resistance information': <https://rims.habasit.com>

## Mode of use or conveyance

Acceleration, Declined, Inclined

## 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%

Protect belts from sunlight/UV-radiation/dust and dirt. Store spare belts in a cool and dry place and if possible in their original packaging. 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)

This product has not been tested according to ATEX standards (atmospheres with explosion risk - ATEX 95 regulation or EU directive 2014/34/EU) and therefore is subject to user's analysis in the respective environment

|             |            |
|-------------|------------|
| Group       | TPU Belts  |
| Sub-Group   | -          |
| Item number | H700001484 |

## Disclaimer

### Product Application Disclaimer (valid for ALL Habasit products and mentioned on all PDS)

This disclaimer is made by and on behalf of Habasit and its affiliated companies, directors, employees, agents and contractors (hereinafter collectively "HABASIT") with respect to the products referred to herein (the "Products"). SAFETY WARNINGS SHOULD BE READ CAREFULLY AND ANY RECOMMENDED SAFETY PRECAUTIONS BE FOLLOWED STRICTLY! Please refer to the Safety Warnings herein, in the Habasit catalogue as well as installation and operating manuals. All indications / information as to the application, use and performance of the Products are recommendations provided with due diligence and care, but no representations or warranties of any kind are made as to their completeness, accuracy or suitability for a particular purpose. The data provided herein are based on laboratory application with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experience may lead to re-assessments and modifications within a short period of time and without prior notice. EXCEPT AS EXPLICITLY WARRANTED BY HABASIT, WHICH WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, THE PRODUCTS ARE PROVIDED "AS IS". HABASIT DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE, ALL OF WHICH ARE HEREBY EXCLUDED TO THE EXTENT ALLOWED BY APPLICABLE LAW. BECAUSE CONDITIONS OF USE IN INDUSTRIAL APPLICATION ARE OUTSIDE OF HABASIT'S CONTROL, HABASIT DOES NOT ASSUME ANY LIABILITY CONCERNING THE SUITABILITY AND PROCESS ABILITY OF THE PRODUCTS, INCLUDING INDICATIONS ON PROCESS RESULTS AND OUTPUT.