Light Conveyor Belts HSL-5E



Main industry segments

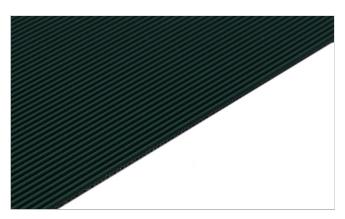
Distribution centers, General conveying

Applications

Decline belt, Incline belt, Metering/singulation belt

Special features

Abrasion resistant, Antistatic, Dimensionally stable, Flat laying, High coefficient of friction surface, Low temperature 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 Super-adhesive |
| Conveying side color | Dark green |
| Traction layer (material) | Polyester (PET) |
| Number of Fabrics | 2 |
| Pulley side material | Polyester (PET) |
| Pulley side surface | Impregnated fabric |
| Pulley side property | Non-adhesive |
| Pulley side color | Gray |

| Product characteristics | |
|--|---|
| Antistatically equipped | Yes |
| Adhesive free joining method | Yes |
| Flammability | Tested according to UL 94HB (USA) requirement; HB= Horizontal Burning |
| Food suitability, FDA conformance | No |
| Food suitability, USDA recommendations | No use intended |
| Food suitability, EU conformance | No |
| Other conformance/approval | Japanese Food Regulation (MHLW Notification No. 370) |

Light Conveyor Belts HSL-5E



| Technical data | | | | | |
|---|------|-------|-------|---------|--|
| Thickness of belt | 1.8 | mm | 0.07 | inch | |
| Mass of belt (belt weight) | 1.9 | kg/m² | 0.379 | lb/sqft | |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155) | 6.5 | N/mm | 37 | lbf/in | |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 4.6 | N/mm | 26 | 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) | 0.15 | - | | | |
| Coefficient of friction (pulley side / stainless steel slider bed) | 0.15 | - | | | |
| Seamless manufacturing width | 2400 | mm | 94.49 | 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 | 20 |
| | inch | 0.79 |
| Pulley diameter minimum with | mm | 40 |
| counter flection | inch | 1.57 |
| Admissible tensile force per unit of | N/mm | 11 |
| width | lbf/in | 63 |
| Admissible tensile force per unit of | N/mm | 4.0 |
| width at max. operating | lbf/in | 23 |
| temperature | | |
| Slider bed suitable | | Yes |
| Carrying rollers suitable | | Yes |
| Troughed installation suitable | | No |
| Powerturns / curved installations | | No |
| Knife-edge (nosebar) suitable | | No |
| Low noise applications | | No |
| 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.

Light Conveyor Belts HSI-5F



Chemical resistance

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

Mode of use or conveyance

Horizontal, 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%, Install the slack belt and tension until running perfectly under the full belt load

Store spare belts in a cool and dry place and if possible in their original packaging. Protect spare belts from sunlight/UV-radiation/dust/dirt! Check Link for Storage requirements:

"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 H010100784

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, 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.