

Processing Belts

XVT-1833



Main industry segments

Cardboard converting, Paper manufacturing and processing, Paper printing and finishing, Secondary packaging

Applications

Paper handling belt, Processing belt

Special features

Abrasion resistant, Constant coefficient of friction, Forgiving in case of short term shock like overloads, High coefficient of friction surface, Versatile

| Product Construction / Design | |
|-------------------------------|--------------------------------------|
| Conveying side material | Acrylonitrile-Butadiene-Rubber (NBR) |
| Conveying side surface | Rough structure |
| Conveying side property | Adhesive |
| Conveying side color | Green |
| Traction layer (material) | Polyamide (PA) |
| Number of Fabrics | 2 |
| Pulley side material | Polyurethane cross-linked (PUR) |
| Pulley side surface | Impregnated fabric |
| Pulley side property | Non-adhesive |
| Pulley side color | Black |

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

| Technical data | | |
|---|-----------------------|---------------|
| Thickness of belt | 1.8 mm | 0.07 inch |
| Mass of belt (belt weight) | 1.8 kg/m ² | 0.369 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155) | 4.2 N/mm | 24 lbf/in |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 1.7 N/mm | 10 lbf/in |
| Min. operating temperature admissible (continuous) | 0 °C | 32 °F |
| Max. operating temperature admissible (continuous) | 100 °C | 212 °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 | 2400 mm | 94.49 inch |

Joining related properties

| Joining method | |
|----------------|---|
| Thermofix 90° | Master joining method for standard applications |

[Link to JDS:](#)

| Joining method | | Thermofix 90° |
|--|-----------------------|-------------------|
| Pulley diameter (minimum) | mm <i>inch</i> | 25 <i>0.98</i> |
| Pulley diameter minimum with counter flecion | mm <i>inch</i> | 25 <i>0.98</i> |
| Admissible tensile force per unit of width | N/mm <i>lbf/in</i> | 8.5 <i>49</i> |
| Admissible tensile force per unit of width at max. operating temperature | N/mm <i>lbf/in</i> | 7.0 <i>40</i> |
| Slider bed suitable | | Yes |
| Carrying rollers suitable | | Yes |
| Troughed installation suitable | | No |
| Powerturns / curved installations | | No |
| Knife-edge (nosebar) suitable | | 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.

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Chemical resistance

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

Mode of use or conveyance

Declined, 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) ~ 0.5%, Install the slack belt and tension until running perfectly under the full belt load

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 | Elastomer Covered Conveying Belts |
| Sub-Group | - |
| Item number | H010100818 |

Disclaimer

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