

# Heavy Conveyor Belts

## TMIPH533EMB



### Main industry segments

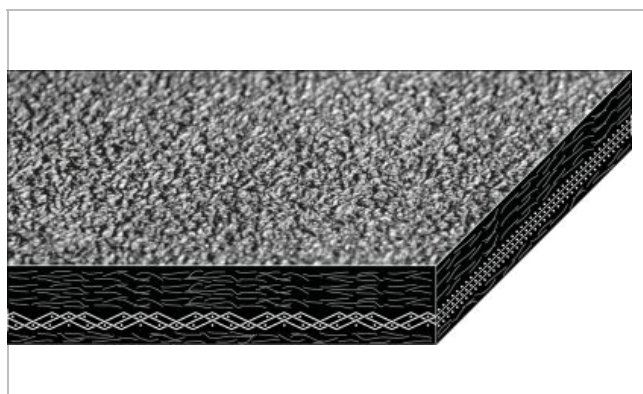
Airport, Distribution centers, Parcel distribution / Overnight carrier

### Applications

Acceleration belt, Check-in belt, Induction belt, Metering/singulation belt

### Special features

Excellent tracking, Low noise applications suitable, No delamination, Non fraying, Powerturn suitable



| Product Construction / Design |                         |
|-------------------------------|-------------------------|
| Conveying side material       | Polyvinylchloride (PVC) |
| Conveying side surface        | Grip structure          |
| Conveying side property       | Medium-adhesive         |
| Conveying side color          | Black                   |
| Traction layer (material)     | Polyester (PET) scrim   |
| Number of Fabrics             | 1                       |
| Pulley side material          | Polyester (PET) fleece  |
| Pulley side surface           | Fabric                  |
| Pulley side property          | Non-adhesive            |
| Pulley side color             | Black                   |

| Product characteristics                |                                                |
|----------------------------------------|------------------------------------------------|
| Antistatically equipped                | No                                             |
| Flammability                           | Flame retardant, Flame retardant to ASTM D-378 |
| 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                                                                                                           | 3.6 mm                | 0.14  | <i>tommer</i>  |
| Mass of belt (belt weight)                                                                                                  | 4.7 kg/m <sup>2</sup> | 0.960 | <i>lb/sqft</i> |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)                                  | 26 N/mm               | 150   | <i>lbf/in</i>  |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 9.4 N/mm              | 54    | <i>lbf/in</i>  |
| Min. operating temperature admissible (continuous)                                                                          | -23 °C                | -10   | <i>°F</i>      |
| Max. operating temperature admissible (continuous)                                                                          | 80 °C                 | 176   | <i>°F</i>      |
| Coefficient of friction (pulley side / steel driving pulley)                                                                | 0.25 -                |       |                |
| Coefficient of friction (pulley side / driving pulley with friction cover)                                                  | 0.35 -                |       |                |
| Coefficient of friction (pulley side / pickled steel slider bed)                                                            | 0.30 -                |       |                |
| Coefficient of friction (pulley side / phenolic resin slider bed)                                                           | 0.25 -                |       |                |
| Coefficient of friction (pulley side / stainless steel slider bed)                                                          | 0.20 -                |       |                |
| Seamless manufacturing width                                                                                                | 1829 mm               | 72.00 | <i>tommer</i>  |
| On request other seamless manufacturing width                                                                               | 1524 mm               | 60    | <i>tommer</i>  |

### Joining related properties

| Joining method |                                                 |
|----------------|-------------------------------------------------|
| Clipper #2HT   | Master joining method for standard applications |
| Thermofix      | Optional joining method                         |

[Link to JDS:](#)

| Joining method                                                           |                       | Clipper #2HT      | Thermofix         |
|--------------------------------------------------------------------------|-----------------------|-------------------|-------------------|
| Pulley diameter (minimum)                                                | mm<br><i>tommer</i>   | 51<br><i>2.00</i> |                   |
| Pulley diameter minimum with counter flection                            | mm<br><i>tommer</i>   | 51<br><i>2.00</i> | 76<br><i>3.00</i> |
| Admissible tensile force per unit of width                               | N/mm<br><i>lbf/in</i> | 22<br><i>128</i>  |                   |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br><i>lbf/in</i> | 14<br><i>80</i>   |                   |
| Slider bed suitable                                                      |                       | Yes               | Yes               |
| Carrying rollers suitable                                                |                       | Yes               | Yes               |
| Troughed installation suitable                                           |                       | No                |                   |
| Powerturns / curved installations                                        |                       | Yes               |                   |
| Knife-edge (nosebar) suitable                                            |                       | No                |                   |
| Low noise applications                                                   |                       | Yes               | Yes               |
| Metal detector suitable                                                  |                       | No                | No                |

Coefficient of friction against cardboard (conveying side): 0.75

*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 til informasjon om kemisk resistens <https://rims.habasit.com>

### Mode of use or conveyance

Horizontal, Inclined, Metering

### 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"](https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf)

No danger and limitation

Group

Sub-Group

Del nummer

Nonwoven Belts

Flame Retardant Belts

H250000308

### Ansvarsfraskrivelse

#### Ansvarsfraskrivelse for produktanvendelse (gælder for ALLE Habasit produkter og nævnt på alle produktdatablade)

Denne ansvarsfraskrivelse gælder for Habasit og firmaer, som er tilknyttet os, samt vores chefer, ansatte, agenter og entreprenører (herefter fælles benævnt HABASIT) for de produkter som omfattes af denne tekst (herefter benævnt produkter). SIKKERHEDSADVARSLER SKAL LÆSES OMHYGGELIGT OG ALLE ANBEFALEDE SIKKERHEDSFORSKRIFTER SKAL FØLGES STRENGT! Følg advarslerne som findes i dette dokument, i Habasits kataloger og i installationsanvisninger og håndbøger. Alle indikationer og al information om applicering, anvendelse og ydelse af produktet er anbefalinger, som kan anses for værende pålidelige, men de er ingen fremstilling, garanti eller ansvarsforpligtigelse med hensyn til fuldstændighed, tolerancer eller egnethed til et bestemt formål. Denne information bygger på laboratoriearbejde med mindre testudstyr, kørt ved normaldrift, hvilket indebærer at den ikke nødvendigvis matcher produkttydelser ved industriel anvendelse. Ny viden og erfaring kan medføre modificeringer og ændringer inden for en kort periode og uden forudgående varsel.

DISSE PRODUKTER OMFATTES AF HABASITS UDTRYKTE GARANTI, SOM ER DEN ENESTE GÆLDENDE GARANTI OG ERSTATTER ALLE ANDRE EVENTUELLE GARANTIER, UDTRYKTE ELLER UNDERFORSTÅEDE. HABASIT FRASKRIVER SIG ALT ANSVAR FOR ALLE ANDRE GARANTIER, UDTRYKTE ELLER UNDERFORSTÅEDE, INKLUSIVE, DOG UDEN AT BEGRÆNSES DERTIL, UNDERFORSTÅEDE GARANTIER OM SALGBARHED, EGNETHED TIL ET BESTEMT FORMÅL, AT PRODUKTERNE IKKE STRIDER MOD NOGLE REGLER, SAMT GARANTIER SOM FØLGE AF AFTALE, ANVENDELSE ELLER HANDEL. DETTE FORBEHOLD GÆLDER I DEN UDSTRÆKNING SOM LOVEN TILLADER. DA FORUDSÆTNINGERNE FOR ANVENDELSE ER UDEN FOR HABASITS KONTROL, KAN VI IKKE TAGE NOGET ANSVAR FOR DE NÆVNTE PRODUKTERS EGNETHED ELLER PROCESILPASNING. DETTE FORBEHOLD GÆLDER OGSÅ FOR INDIKATIONER FRA PROCESRESULTATER OG OUTPUT.