Product Data Sheet
HAL-12E

Product Designation

Product Group: High duty conveyor and processing belts
Product Sub-Group: Rubber conveyor and processing belts
Main Industry Segments: Materials Handling; Packaging; Paper manufacturing and processing; Wood
Belt Applications: Acceleration belt; Decline belt; General conveying belt; Incline belt; Paper handling belt
Special Features: Constant coefficient of friction; Temperature variation resistant
Mode of Use/Conveyance: Declined; Horizontal; Inclined

Product Design (enlarged)

Product Construction/Design

Conveying Side (Material): Ethylene-Propylene-Terpolymer (EPDM) also called EPT
Conveying Side (Surface): Longitudinal groove structure
Conveying Side (Property): Super-adhesive
Conveying Side (Color): Green
Traction Layer (Material): Polyester (PET)
Number of Fabrics: 2
Running Side/Pulley Side (Material): Polyurethane cross-linked (PUR)
Running Side/Pulley Side (Surface): Impregnated fabric
Running Side/Pulley Side (Color): Black

Product Characteristics

Slider bed suitable: Yes
Carrying rollers suitable: Yes
Power turns, curved installations: No
Nosebar suitable: No
Permanently antistatic: Yes
Metal detector suitable: No
Flammability: No specific flammability prevention property
Food suitability, FDA conformance: No
Food suitability, USDA recommendations: Not conformable
Food suitability, EU conformance: No
## Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>2.5 mm</td>
<td>0.1 in.</td>
</tr>
<tr>
<td>Mass of belt (belt weight)</td>
<td>2.5 kg/m²</td>
<td>0.51 lbs./sq.ft</td>
</tr>
<tr>
<td>Nosebar Radius (minimum)</td>
<td>NA mm</td>
<td>NA in.</td>
</tr>
<tr>
<td>Pulley diameter (minimum)</td>
<td>48 mm</td>
<td>1.9 in.</td>
</tr>
<tr>
<td>Pulley diameter minimum with counterflection</td>
<td>60 mm</td>
<td>2.4 in.</td>
</tr>
<tr>
<td>Tensile force for 1% elongation (k1% static)</td>
<td>20 N/mm</td>
<td>114 lbs./in.</td>
</tr>
<tr>
<td>Tensile force for 1% elongation (k1% relaxed EN 1723) per unit of width (Habasit standard 320.155)</td>
<td>13 N/mm</td>
<td>74 lbs./in.</td>
</tr>
<tr>
<td>Admissible tensile force per unit of width</td>
<td>20 N/mm</td>
<td>114 lbs./in.</td>
</tr>
<tr>
<td>Operating temperature admissible (continuous)</td>
<td>Min -30 °C</td>
<td>Min -22 °F</td>
</tr>
<tr>
<td>Max 100 °C</td>
<td></td>
<td>Max 212 °F</td>
</tr>
<tr>
<td>Coefficient of friction on slider bed of pickled steel sheet</td>
<td>0.20 [-]</td>
<td>0.2 [-]</td>
</tr>
<tr>
<td>Seamless manufacturing width</td>
<td>1200 mm</td>
<td>47 in.</td>
</tr>
</tbody>
</table>

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554), and are based on the Master Joining Method.

## Additional Technical Information

### Chemical Resistance Class:
4 (These indications are not guarantees of properties)

### Installation and Handling Instructions:
Do not go below initial tension (epsilon) ~ 0.3%; Install the slack belt and tension until running perfectly under the full belt load.

### Limitations:
This product has not been tested according to ATEX standards (atmospheres with explosion risk - ATEX 95 regulation or EU directive 94/9) and therefore is subject to user's analysis in the respective environment.

## Legend
- * No calculation Value
- 1) No further authoritative acceptance since elimination of prior approval procedure of September 24, 1997, from USDA authority
- 2) Product containing different coating materials such as elastomer, natural fibers, silicones, etc., are not subject to the directive 2002/72/EC
- 3) CLA: Coordination of the centre line-average value Ra (in the US also Arithmetical Average (AA)) to the maximum peak to valley height Rt for surfaces manufactured by chip removal.
- 8) Due to high coefficient of friction of running/pulley side, the suitability for use on slider beds is limited

### BgVV
Bundesinstitut für gesundheitlichen Verbraucherschutz und Veterinärmedizin (German Federal Institute for Consumers' Health Protection and Veterinary Medicine)

### EEC
European Economic Community

### EU
European Union (Directive 2002/72/EC)

### FDA
Food and Drug Administration

### NA
Not available

### NAP
Not applicable

### USDA
United States Department of Agriculture (Food Safety and Inspection Service, Washington D.C.)

### JFRL
Japan Food Research Laboratory

## Product Liability, Application Considerations

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