

# 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 <sup>2</sup>	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

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### 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
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).

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### Chemical resistance

Link to 'Chemical resistance information': <http://www.habasit.com/en/chemical-resistance.htm>

### 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

For details consult 'Storage and handling requirements for belts and machine tapes' or contact Habasit, 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.

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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