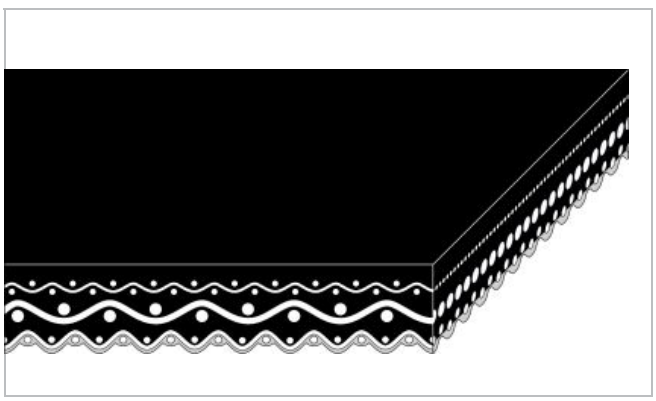
Processing Belts
ENU-50AXBD

Main industry segments
Textile printing

Applications
Printing blanket, Textile digital printing

Special features
Abrasion resistant, High modulus of elasticity, High precision



Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Smooth
Conveying side property	Non-adhesive
Conveying side color	Black
Traction layer (material)	Aramid fabric
Number of Fabrics	3
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	No specific flammability prevention property
Food suitability, FDA conformance	Yes - Check Document of Compliance (DoC) in our Portal
Food suitability, EU conformance	Yes - Check Document of Compliance (DoC) in our Portal

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Technical data				
Thickness of belt	2.3	mm	*0.091*	*inch*
Position of the neutral phase (above the running side)	0.90	mm	*0.035*	*inch*
Mass of belt (belt weight)	2.6	kg/m²	*0.533*	*lb/sqft*
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	42	N/mm	*240*	*lbf/in*
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	26	N/mm	*148*	*lbf/in*
Min. operating temperature admissible (continuous)	-15	°C	*5*	*°F*
Max. operating temperature admissible (continuous)	70	°C	*158*	*°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	4000	mm	*157.48*	*inch*

Joining related properties

Joining method	
Flexproof 10 x 80	Master joining method for standard applications

Link to JDS:

Joining method		Flexproof 10 x 80
Pulley diameter (minimum)	mm *inch*	80 *3.15*
Pulley diameter minimum with counter flection	mm *inch*	80 *3.15*
Admissible tensile force per unit of width	N/mm *lbf/in*	40 *228*
Admissible tensile force per unit of width at max. operating temperature	N/mm *lbf/in*	28 *160*
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

For calculations the following data is valid: Pulley diameter min. (dmin): 100 mm / 4.0 in.Maximum operating temperature intermittent: 90 °C / *194 °F* (intermittent = max. 60 sec.)

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
Horizontal

Calculations
For most applications calculation is not required. Should you still need a calculation: please ask Habasit.

Recommendation
Follow the Installing and Maintenance Instructions which are supplied with each product delivery, Install the slack belt and tension until running perfectly under the full belt load, Maximum initial elongation: 0.7%!, Recommended initial elongation 0.3 - 0.5%

For details consult 'Printing Blanket Handling and Maintenance Instructions' available in the Habasit download center or contact Habasit.
"https://www.habasit.com/en/Download-center"

Printing blankets should be stored in their original packaging, protected from sunlight and other light sources, in a cool and dry environment. To maintain optimal quality, the storage period should be kept as short as possible under these conditions. For further information, please contact your Habasit representative.

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, Use cleaning agent as prescribed by the machine or cleaning agent manufacturer

Group	Printing Blankets
	Premium Printing Blankets
Item number	H010102372

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