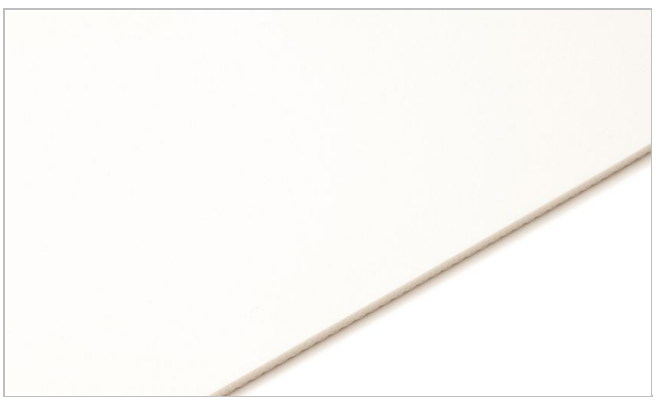
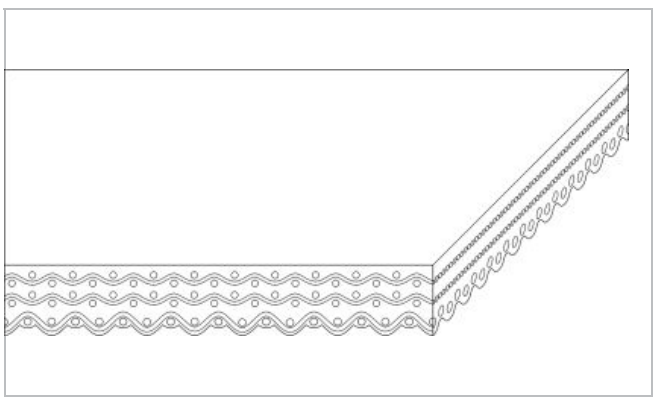
Food Belts
3T30

Main industry segments
Frozen food, Grain, Poultry, Red meat

Applications
Food processing/conveying belt, Z-conveyor (goose/swan neck)

Special features
Abrasion resistant, Oil and fat resistant





Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Glossy
Conveying side property	Medium-adhesive
Conveying side color	White
Traction layer (material)	Polyester (PET)
Number of Fabrics	3
Pulley side material	Polyester (PET)
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	White

Product characteristics	
Antistatically equipped	No
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	2.2	mm	*0.087*	*inch*
Mass of belt (belt weight)	2.4	kg/m²	*0.492*	*lb/sqft*
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	13	N/mm	*74*	*lbf/in*
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	10	N/mm	*57*	*lbf/in*
Min. operating temperature admissible (continuous)	-20	°C	*-4*	*°F*
Max. operating temperature admissible (continuous)	90	°C	*194*	*°F*
Coefficient of friction (pulley side / steel driving pulley)	0.10	-		
Coefficient of friction (pulley side / driving pulley with friction cover)	0.35	-		
Coefficient of friction (pulley side / pickled steel slider bed)	0.15	-		
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	2000	mm	*78.74*	*inch*
On request other seamless manufacturing width	1500	mm	*59*	*inch*

Joining related properties

Joining method	
Flexproof 10 x 120	Master joining method for standard applications

Link to JDS:

Joining method		Flexproof 10 x 120
Pulley diameter (minimum)	mm *inch*	100 *3.94*
Pulley diameter minimum with counter flection	mm *inch*	150 *5.91*
Admissible tensile force per unit of width	N/mm *lbf/in*	24 *137*
Admissible tensile force per unit of width at max. operating temperature	N/mm *lbf/in*	4.4 *25*
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		No
Knife-edge (nosebar) suitable		No
Metal detector suitable		Yes

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
Do not go below initial elongation (epsilon) ~ 0.3%

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"

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	TPU Belts
	General Purpose Belts
Item number	H700000176

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