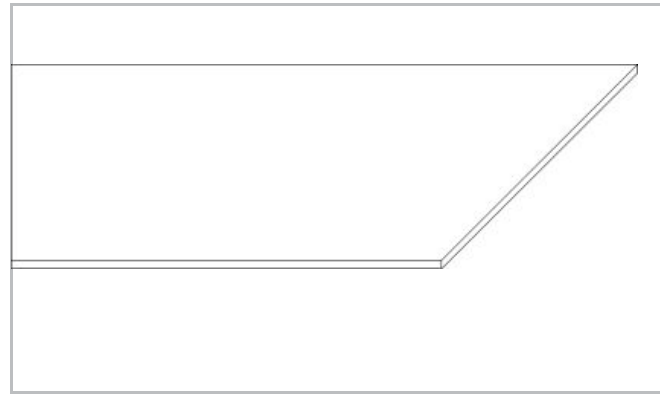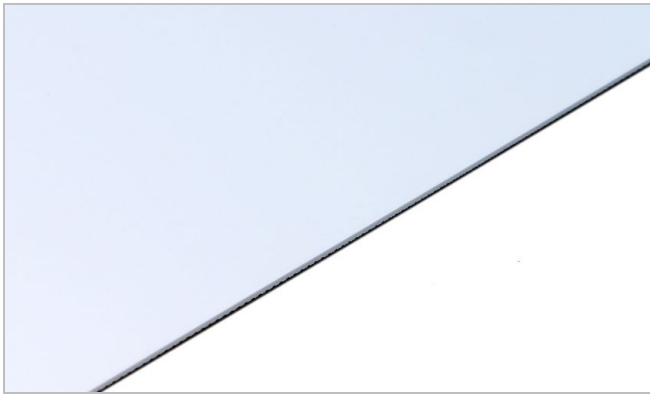# Food Belts
NT90

Main industry segments
Baked snacks, Biscuit and Crackers, Chocolate, Primary food packaging

Applications
Diverting belt, Packaging belt, Weighing belt

Special features
Abrasion resistant, Edges wear resistant, Elastic, Flexibility, Flexibility in all directions, Oil and fat resistant, Small pulley diameter suitable

Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Smooth
Conveying side property	Non-adhesive
Conveying side color	White
Traction layer (material)	Thermoplastic polyurethane (TPU)
Number of Fabrics	0
Pulley side material	Thermoplastic polyurethane (TPU)
Pulley side surface	Fine textile structure
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 - acc. to 21CFR parts 170 - 199. Details/restrictions see Habasit food compliance declaration.
Food suitability, USDA recommendations	No use intended
Food suitability, EU conformance	Yes - acc. to Regulation (EC) No. 1935/2004 as well as Regulation (EU) No. 10/2011 and/or other relevant food contact legislation. Details/restrictions see Habasit food compliance declaration.

Technical data

Thickness of belt	0.90	mm	0.04	inch
Mass of belt (belt weight)	1.1	kg/m²	0.225	lb/sqft
Tensile force for 8% elongation (k8% static) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181):	2.2	N/mm	13	lbf/in
Tensile force for 8% elongation after relaxation (k8% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181):	1.1	N/mm	6	lbf/in
Min. operating temperature admissible (continuous)	0	°C	32	°F
Max. operating temperature admissible (continuous)	60	°C	140	°F
Coefficient of friction (running side / steel driving pulley)	0.35	-		
Coefficient of friction (running side / driving pulley with friction cover)	0.40	-		
Coefficient of friction (running side / pickled steel slider bed)	0.40	-		
Coefficient of friction (running side / phenolic resin slider bed)	0.35	-		
Coefficient of friction (running side / stainless steel slider bed)	0.35	-		
Seamless manufacturing width	1500	mm	59	inch

Joining related properties

Joining method

Butt Joint	Master joining method for standard applications
Flexproof 20 x 80	Optional joining method
Flexproof 10 x 80	Optional joining method

[Link to JDS:](#)

Joining method		Butt Joint	Flexproof 20 x 80	Flexproof 10 x 80
Pulley diameter (minimum)	mm	15	15	15
	inch	0.59	0.59	0.59
Pulley diameter minimum with counter flection	mm	15	15	15
	inch	0.59	0.59	0.59
Admissible tensile force per unit of width	N/mm	1.6	1.6	1.6
	lbf/in	9	9	9
Admissible tensile force per unit of width at max. operating temperature	N/mm	1.6	1.6	1.6
	lbf/in	9	9	9
Slider bed suitable		Yes	Yes	Yes
Carrying rollers suitable		Yes	Yes	Yes
Troughed installation suitable		Yes	Yes	Yes
Power turns / curved installations		No	No	No
Nosebar suitable		No	No	No
Metal detector suitable		Yes	Yes	Yes

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

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

Mode of use or conveyance
Horizontal

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

Recommendation
Elastic belt: Initial elongation depends on belt load and application

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	TPU Belts
Sub-Group	General Purpose Belts
Item number	H700000812