Light Conveyor Belts
E-5EXBT
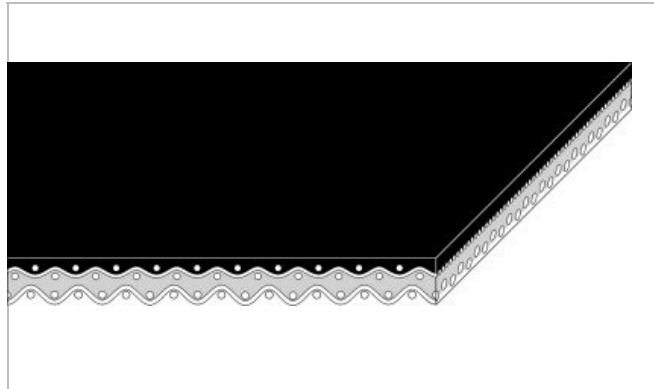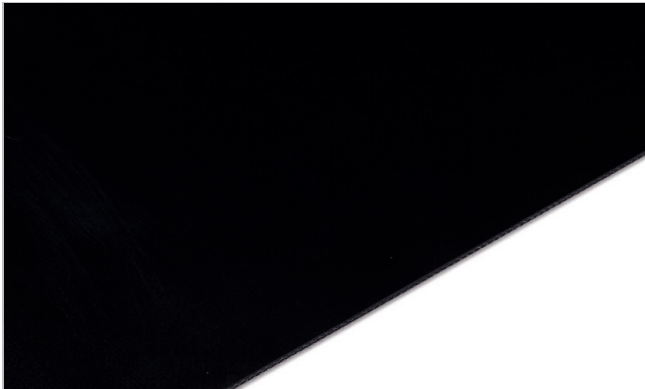
Main industry segments
General conveying

Applications
Check-out belt, Infeed belt, Inspection/control belt, Metering/singulation belt, Miniconveyor belt, Packaging belt, Transfer belt, Weighing belt

Special features
Abrasion resistant, Antistatic, Dimensionally stable, Flat laying, Small pulley diameter suitable

Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Smooth
Conveying side property	Medium-adhesive
Conveying side color	Black
Traction layer (material)	Polyester (PET)
Number of Fabrics	2
Pulley side material	Polyester (PET)
Pulley side surface	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	No
Food suitability, USDA recommendations	No use intended
Food suitability, EU conformance	No

Technical data				
Thickness of belt	1.20	mm	0.05	inch
Mass of belt (belt weight)	1.3	kg/m²	0.266	lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	6.5	N/mm	37	lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	4.8	N/mm	27	lbf/in
Min. operating temperature admissible (continuous)	-30	°C	-22	°F
Max. operating temperature admissible (continuous)	80	°C	176	°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	2400	mm	94.49	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
Knife-edge (nosebar) radius (minimum)	mm	4
	inch	0.157
Pulley diameter (minimum)	mm	15
	inch	0.59
Pulley diameter minimum with counter flection	mm	15
	inch	0.59
Admissible tensile force per unit of width	N/mm	12
	lbf/in	69
Admissible tensile force per unit of width at max. operating temperature	N/mm	6.5
	lbf/in	37
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		No
Low noise applications		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). 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.

Chemical resistance

Link to 'Chemical resistance information': https://rims.habasit.com

Mode of use or conveyance

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) ~ 0.3%, Install the slack belt and tension until running perfectly under the full belt load

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. Check Link for Storage requirements:
"https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf"

Not suitable for wet operations combined with increased temperatures, 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	-
Item number	H010100204