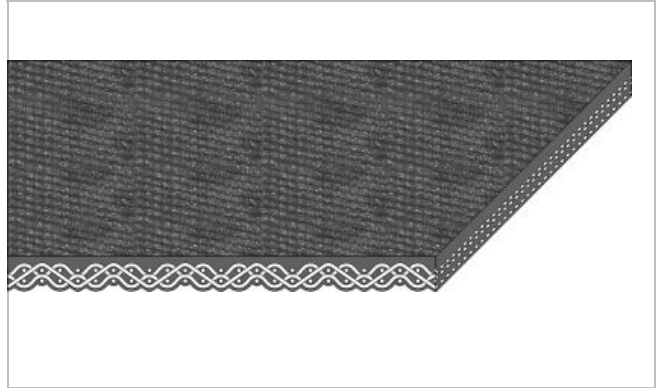# Heavy Conveyor Belts
APH120FBS-E3

Main industry segments
Airport, Distribution centers, Parcel distribution / Overnight carrier

Special features
Energy saving, Flame retardant, High strength

Product Construction / Design	
Conveying side material	Polyester fabric (PET) impregnated with polyvinylchloride (PVC)
Conveying side surface	Fabric
Conveying side property	Non-adhesive
Conveying side color	Black
Traction layer (material)	Polyester (PET)
Number of Fabrics	1
Pulley side material	Polyester (PET)
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	Green

Product characteristics	
Antistatically equipped	No
Adhesive free joining method	Yes
Flammability	Flame retardant, Flame retardant to ASTM D-378
Food suitability, FDA conformance	No
Food suitability, USDA recommendations	No use intended
Food suitability, EU conformance	No

Technical data

Technical data				
Thickness of belt	3.6	mm	0.14	inch
Mass of belt (belt weight)	3.4	kg/m²	0.690	lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	36	N/mm	206	lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	12	N/mm	69	lbf/in
Min. operating temperature admissible (continuous)	-18	°C	0	°F
Max. operating temperature admissible (continuous)	82	°C	180	°F
Coefficient of friction (pulley side / steel driving pulley)	0.15	-		
Coefficient of friction (pulley side / driving pulley with friction cover)	0.25	-		
Coefficient of friction (pulley side / pickled steel slider bed)	0.20	-		
Seamless manufacturing width	1829	mm	72.00	inch
On request other seamless manufacturing width	1524	mm	60	inch

Joining related properties

Joining method	
Clipper #2HT	Master joining method for standard applications
Flexproof 10 x 80	Optional joining method
Thermofix	Optional joining method

[Link to JDS:](#)

Joining method		Clipper #2HT	Flexproof 10 x 80	Thermofix
Pulley diameter (minimum)	mm	79	76	76
	inch	3.10	3.00	3.00
Pulley diameter minimum with counter flection	mm	79	76	76
	inch	3.10	3.00	3.00
Admissible tensile force per unit of width	N/mm	21		
	lbf/in	120		
Admissible tensile force per unit of width at max. operating temperature	N/mm	6.7		
	lbf/in	38		
Slider bed suitable		Yes	Yes	Yes
Carrying rollers suitable		Yes	Yes	Yes
Troughed installation suitable		No	No	
Powerturns / curved installations		No	No	
Knife-edge (nosebar) suitable		No	No	
Low noise applications		No	No	No
Metal detector suitable		No	No	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

Diverting, 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) ~ 0.5%, 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"

No danger and limitation

Group	Woven PVC Belts
Sub-Group	Energy Saving Belts
Item number	H250000256