

Processing Belts

SAG-12E



Main industry segments

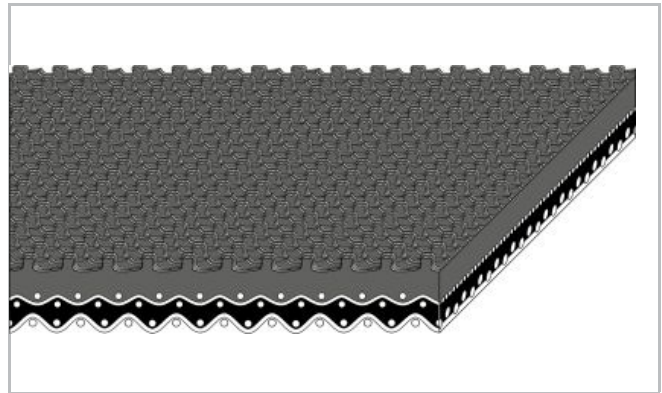
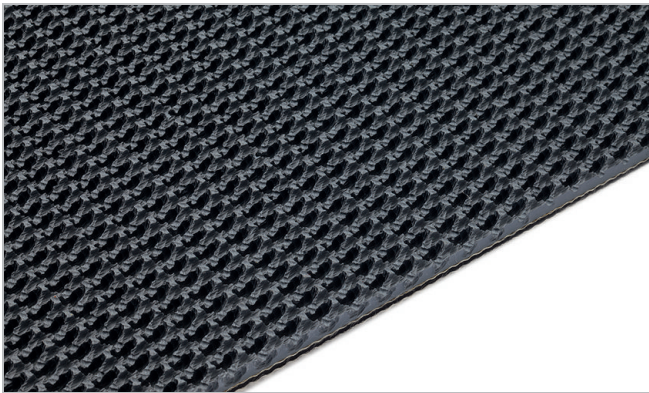
Cardboard converting, Distribution centers

Applications

Decline belt, Incline belt, Processing belt

Special features

Constant coefficient of friction, High coefficient of friction surface, Ozone resistant, Robustness, UV resistant



Product Construction / Design	
Conveying side material	Rubber (EPDM)
Conveying side surface	Grip structure
Conveying side property	Adhesive
Conveying side color	Anthracite
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	Off-white

Product characteristics	
Antistatically equipped	Yes
Adhesive free joining method	No
Flammability	Classified according to UL 94HB (USA); HB= Horizontal Burning
Food suitability, FDA conformance	No
Food suitability, USDA recommendations	No use intended
Food suitability, EU conformance	No

Technical data			
Thickness of belt	5.2 mm	0.20	inch
Mass of belt (belt weight)	4.2 kg/m ²	0.860	lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	17 N/mm	97	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)	-30 °C	-22	°F
Max. operating temperature admissible (continuous)	100 °C	212	°F
Coefficient of friction (running side / steel driving pulley)	0.15 -		
Coefficient of friction (running side / driving pulley with friction cover)	0.35 -		
Coefficient of friction (running side / pickled steel slider bed)	0.20 -		
Coefficient of friction (running side / phenolic resin slider bed)	0.15 -		
Coefficient of friction (running side / stainless steel slider bed)	0.15 -		
Seamless manufacturing width	1200 mm	47	inch

Joining related properties

Joining method	
Thermofix	Master joining method for standard applications
Clipper UCM-36 LP	Optional joining method
Clipper #1 SP	Optional joining method

[Link to JDS:](#)

Joining method		Thermofix	Clipper UCM-36 LP	Clipper #1 SP
Pulley diameter (minimum)	mm inch	60 2.36		
Pulley diameter minimum with counter flection	mm inch	80 3.15		
Admissible tensile force per unit of width	N/mm lbf/in	30 171		
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	19 108		
Slider bed suitable		Yes	Yes	Yes
Carrying rollers suitable		Yes	Yes	Yes
Troughed installation suitable		No	No	No
Power turns / curved installations		No	No	No
Nosebar suitable		No	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).

Chemical resistance

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

Mode of use or conveyance

Declined, 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

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.

Minimum diameter with counter flection = 100 mm for speed > 2 m/s, This product has not been tested according to ATEX standards (atmospheres with explosion risk - ATEX 95 regulation or EU directive 94/9) and therefore is subject to user's analysis in the respective environment

Group	Elastomer Covered Conveying Belts
Sub-Group	-
Item number	H010100277

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