

Heavy Conveyor Belts

UM155/FRAS-B 17



Main industry segments

Airport, Cardboard converting, Electronics

Applications

Transfer belt, Loading/Unloading belt

Special features

Abrasion resistant on both sides, Antistatic, Edges wear resistant, Flame retardant, Good lace retention, Low friction conveying side, Low friction running side, Low noise applications suitable, No delamination, Oil resistant, Reverse bending, Wear resistant



Product Construction / Design	
Conveying side material	Polyester (PET) fleece
Conveying side surface	Buffed finish
Conveying side property	Non-adhesive
Conveying side color	Black
Traction layer (material)	Polyester (PET) scrim
Number of Fabrics	1
Pulley side material	Polyester (PET) fleece
Pulley side surface	Buffed finish
Pulley side property	Non-adhesive
Pulley side color	Black

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

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Technical data		
Thickness of belt	3.9 mm	0.16 inch
Mass of belt (belt weight)	2.1 kg/m ²	0.440 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	24 N/mm	135 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	8.0 N/mm	45 lbf/in
Min. operating temperature admissible (continuous)	-12 °C	10 °F
Max. operating temperature admissible (continuous)	80 °C	176 °F
Coefficient of friction (pulley side / steel driving pulley)	0.20 -	
Coefficient of friction (pulley side / driving pulley with friction cover)	0.35 -	
Coefficient of friction (pulley side / pickled steel slider bed)	0.40 -	
Coefficient of friction (pulley side / phenolic resin slider bed)	0.30 -	
Coefficient of friction (pulley side / stainless steel slider bed)	0.25 -	
Seamless manufacturing width	2000 mm	78.74 inch

Joining related properties

Joining method	
Flexproof	Master joining method for standard applications

[Link to JDS:](#)

Joining method		Flexproof
Pulley diameter (minimum)	mm inch	76 3.00
Pulley diameter minimum with counter flection	mm inch	76 3.00
Admissible tensile force per unit of width	N/mm lbf/in	11 64
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	9.3 53
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		Yes
Knife-edge (nosebar) suitable		No
Low noise applications		Yes
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.

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Chemical resistance

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

Mode of use or conveyance

Carrying roller, Curved, Horizontal, Live roller drive

Recommendation

Group	Nonwoven Belts
Sub-Group	Flame Retardant Belts
Item number	H250000513

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