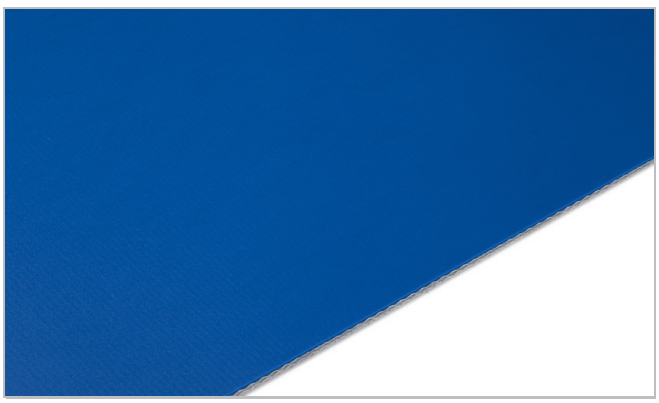
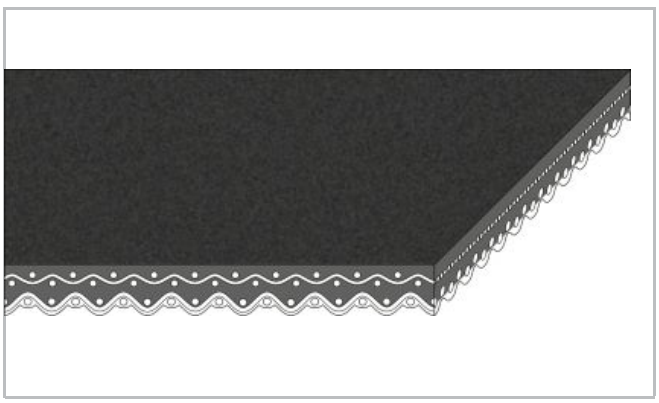
Processing Belts
EMB-20EMCH

Main industry segments
Wood panel and boards

Applications
Forming line/spreading belt

Special features
ATEX compliant, Hydrolysis resistant





Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Matt
Conveying side property	Medium-adhesive
Conveying side color	Cobalt blue
Traction layer (material)	Polyester (PET)
Number of Fabrics	2
Pulley side material	Polyester (PET)
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	White

Product characteristics	
Antistatically equipped	Yes
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.

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Technical data				
Thickness of belt	1.7	mm	*0.07*	*inch*
Mass of belt (belt weight)	1.9	kg/m²	*0.389*	*lb/sqft*
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	18	N/mm	*103*	*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)	70	°C	*158*	*°F*
Coefficient of friction (running side / steel driving pulley)	0.10	-		
Coefficient of friction (running side / driving pulley with friction cover)	0.35	-		
Coefficient of friction (running side / pickled steel slider bed)	0.15	-		
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	4000	mm	*157*	*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
Nosebar radius (minimum)	mm *inch*	7 *0.276*
Pulley diameter (minimum)	mm *inch*	15 *0.59*
Pulley diameter minimum with counter flection	mm *inch*	40 *1.57*
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*	18 *103*
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Power turns / curved installations		No
Nosebar suitable		Yes
Metal detector suitable		Yes

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

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

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

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.

Habasit declares this product as a component which is intended for incorporation into ATEX-compliant equipment or assemblies. This component fulfills the classification: Ex II 2 G IIB D c Ta ≤ +80 °C (Qualified for equipment group II; category 2; for groups of agents gas (explosion groups IIA and IIB) and dust; protection achieved by constructional safety; for maximum ambient temperature ≤ +80 °C), High frequency system HF: Check belt heating! If belt heats up sawdust or fibres will stick, Not suitable for wet operations combined with increased temperatures and with extreme greasy and oily conditions

Group	Wood Processing Belts
Sub-Group	Forming Belts
Item number	H010101811