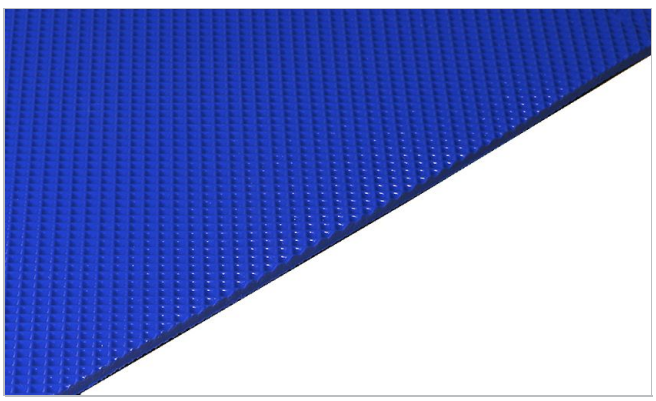
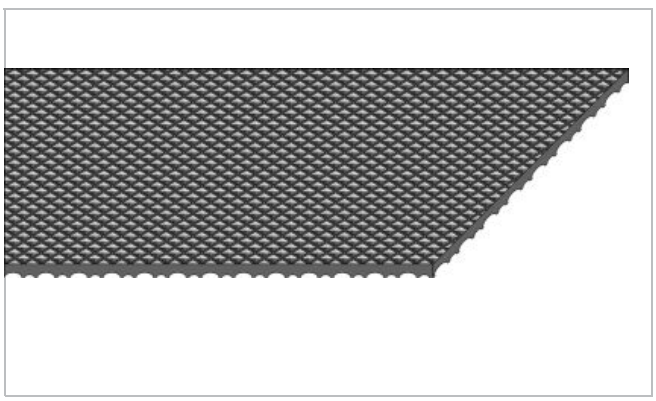
Monolithic Flat Belts
CD.F23-N-UC+PN/AR

Main industry segments
Food processing and packaging

Applications
Food processing/conveying belt, Slicers, Weighing belt

Special features
Abrasion resistant, Edges wear resistant, Elastic, Flexibility in all directions, Monolithic Belt, Non fraying, Oil and fat resistant, Small pulley diameter suitable





Product Construction / Design	
Material	Thermoplastic polyurethane (TPU)
Color	Cobalt blue
Conveying side surface	Inverted pyramid structure
Conveying side property	Medium-adhesive
Traction layer (material)	No reinforcement
Pulley side surface	Coarse textile structure
Pulley side property	Medium-adhesive

Product characteristics	
Antistatically equipped	No
Knife edge roller suitable	Yes
Slider bed suitable	Yes
Carrying rollers suitable	Yes
Troughed installation suitable	Yes
Flammability	No specific flammability prevention property
Food suitability, EU conformance	Yes - Check Document of Compliance (DoC) in our Portal
Food suitability, FDA conformance	Yes - Check Document of Compliance (DoC) in our Portal

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Technical data				
Hardness	95	Shore A		
Thickness of belt	2.4	mm	*0.094*	*inch*
Mass of belt (belt weight)	2.7	kg/m²	*0.553*	*lb/sqft*
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	0.90	N/mm	*5*	*lbf/in*
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	0.65	N/mm	*4*	*lbf/in*
Min. operating temperature admissible (continuous)	-10	°C	*14*	*°F*
Max. operating temperature admissible (continuous)	60	°C	*140*	*°F*
Coefficient of friction (pulley side / steel driving pulley)	0.50	-		
Coefficient of friction (pulley side / PE wearstrips)	0.55	-		
Coefficient of friction (pulley side / stainless steel slider bed)	0.65	-		
Coefficient of friction (conveying side / PE wearstrips)	0.55	-		
Coefficient of friction (pulley side / PE sliding support)	0.55	-		
Seamless manufacturing width	1350	mm	*53.15*	*inch*

Joining related properties

Joining method	
Quickmelt	Master joining method for standard applications

Link to JDS:

Joining method		Quickmelt
Knife-edge roller diameter (minimum)	mm *inch*	16 *0.630*
Pulley diameter (minimum)	mm *inch*	25 *0.98*
Pulley diameter minimum with counter flection	mm *inch*	25 *0.98*
Admissible tensile force per unit of width	N/mm *lbf/in*	3.2 *18*
Admissible tensile force per unit of width at max. operating temperature	N/mm *lbf/in*	0.60 *3*

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

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) ~ 1.0%, Elastic belt: Initial elongation depends on belt load and application

Store spare belts in a cool and dry place and if possible in their original packaging. Protect spare belts from sunlight/UV-radiation/dust/dirt! Check Link for Storage requirements:
"https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf"

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

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Group	Cleandrive Friction Drive Monolithic Elastic Flat Belts
Item number	H700018352

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