



MECTROL®

POSICLEAN® FOOD GRADE BELTING



Gates Mectrol PosiClean is an easy to clean replacement of plastic modular chain in food process conveying.

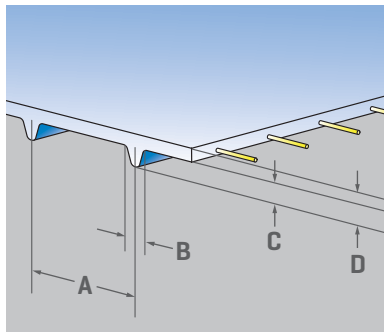
PosiClean's smooth, easy-to-clean surface reduces the risk of microbial contamination and its Kevlar® tension members minimize belt stretch and improve belt stability.

FEATURES

- › Clean-in-place process
- › Urethane material compatible with wash down environments
- › Kevlar® tension members provide high strength, low stretch
- › Sealed edges and tension members prevent ingress of microbes
- › Free from surface "sinks" over teeth that prevent effective scraping
- › USDA accepted for meat, poultry and dairy processing equipment

BENEFITS

- › Reduction of in-process bacteria growth
- › Reduces cleaning labor by 50%, water usage by 45%
 - Saves 600 gallons annually for every foot of 24" wide modular belt replaced
- › Drop-in replacement for most 1" and 2" plastic modular belt
- › Reduces or eliminates the need for snubbers and returnway supports
- › Longer belt life due to minimal belt stretch



PC10

- › 2" minimum pulley diameter, typically used for better handoffs
- › Direct drop-in replacement for most 1" plastic modular belting

PC20

- › Available in two cord per inch for light to medium applications and four cord per inch for high torque applications
- › Direct drop-in replacement for most 2" plastic modular belt
 - 180° wrap around most 8, 10, and 12 tooth modular pulleys
- › 4" minimum pulley diameter
- › Can be used with the PosiLace™ pin fastening system

	PC10	PC20
A - Distance Between Teeth	1.02"	1.97"
B - Tooth Width	0.169"	0.301"
C - Tooth Height	0.138"	0.226"
D - Belt Thickness with Tooth	0.246"	0.354"

POSICLEAN® FOOD GRADE BELTING

POSICLEAN <> SPECIFICATIONS

BELT OPTIONS	PC10	PC20		
	Standard	Standard	Hi Torque	Cold Temp
Designator	KV-FDA	KV-FDA	HDK-FDA	HDK-R6
Cords/Inch	2	2	4	2
Pitch	1.02" (26 mm)	1.97" (50 mm)	1.97" (50 mm)	1.97" (50 mm)
Hardness - Shore A	94	94	94	85
Specific Belt Weight (lbs/ft/in)	0.063	0.089	0.089	0.089
Specific Belt Stiffness (lbs/inch)	7400	7400	11800	11800
Min. Sprocket Dia. Service Temp above 25°F	2.0"	3.76"	3.76"	3.76"
Min. Sprocket Dia. Service Temp below 25°F	3.25"	6.27"	6.27"	6.27"
Min. Back Bend Dia. above 25°F	3.5"	6"	6"	6"
Min. Back Bend Dia. below 25°F	5"	10"	10"	10"
Service Temperature Range	+15° to 160°F (-9° to 71°C)	-4° to 158°F (-20° to 70°C)	-4° to 158°F (-20° to 70°C)	-10° to 158°F (-23° to 70°C)
Ultimate Belt Strength (lbs/in of width)	294	265	502	528
Coefficient of Friction				
Urethane vs. UHMW - dry [dynamic/static]	0.42 / 0.48	0.42 / 0.48	0.42 / 0.48	0.54 / 0.69
Urethane vs. UHMW - wet [dynamic/static]	0.34 / 0.45	0.34 / 0.45	0.34 / 0.45	-
Urethane vs. Stainless Steel - dry [dyn/static]	0.51 / 0.52	0.51 / 0.52	0.51 / 0.52	0.64 / 0.68
Urethane vs. Stainless Steel - wet [dyn/static]	0.47 / 0.51	0.47 / 0.51	0.47 / 0.51	-
Color	PosiBlue, Off-White	PosiBlue, Off-White	PosiBlue	PosiBlue
Min. and Max. Width	4"/36"	5"/36"	5"/36"	5"/36"
Max. Length	200'	200'	200'	200'

FASTENING OPTIONS

Max. Allowable Tension (lbs per inch width)^[1]

Finger Weld (Length PC20 - 3.35", PC10 - 3.07")	35	50	64	46
Finger Weld (Length 25 mm)	31	40	52	37
Split Tooth Straight Cut	31	40	52	37
PosiLace™	N/A	21	21	21
Flexco® UX1SS Clipper® Wire Hooks	31	31	41	37
Flexco® APF150 Alligator® Plastic Rivet	N/A	25	25	23
Flexco® APF100 Alligator® Plastic Rivet	25	N/A	N/A	N/A
Flexco® RS125 Alligator® Ready Set® Staple	N/A	26	26	23
Flexco® RS62 Alligator® Ready Set® Staple	26	N/A	N/A	N/A

[1] Max allowable is set at the lower of 25% yield strength or 2% stretch at weld or splice



1" Pitch Sprocket



2" Pitch Sprocket

POSICLEAN <> SLIT WIDTH TOLERANCES

Up To and Including 15.75"	15.76" to 23.62"	23.63" or more
+0.00 to -.125"	+0.00 to -.1875"	+0.00 to -.25"

POSICLEAN SPROCKET™ <> SPECIFICATIONS

		PC10					PC20				
		6	8	10	12	20	6	8	10	12	16
Number of Teeth											
Nom. Outside Diameter	inch	1.9	2.5	3.2	3.8	6.4	3.7	4.9	6.2	7.5	10.0
Nominal Width	inch	1	1	1	1	1	1.3	1.3	1.3	1.3	1.3
Bore Sizes	Square, in	N/A	N/A	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Round*, in	1	1	N/A	N/A	N/A	1	1	1	1	1

Material

UHMW-PE

UHMW-PE

* Imperial keyway sizes on round bores conform to ANSI standard B17.1 - 1967 (R1989); metric keyway sizes conform to BS 4235: Part 1: 1972 (1986)

POSICLEAN SPROCKET + SUPPORT GUIDELINES <> PC10 AND PC20

Belt Width	inch	6	9	12	15	18	21	24	27	30	36
Min. No. Sprockets											
[Max. 5" spacing center to center]		3	3	4	4	5	6	6	7	7	9
No. of Sprockets for Max. Allow. Tension											
[Max. 3" spacing center to center]		3	4	5	6	7	8	9	10	11	13
Min. No. Carryway Supports											
[6" spacing center to center]		2	3	3	4	4	5	5	6	6	7

