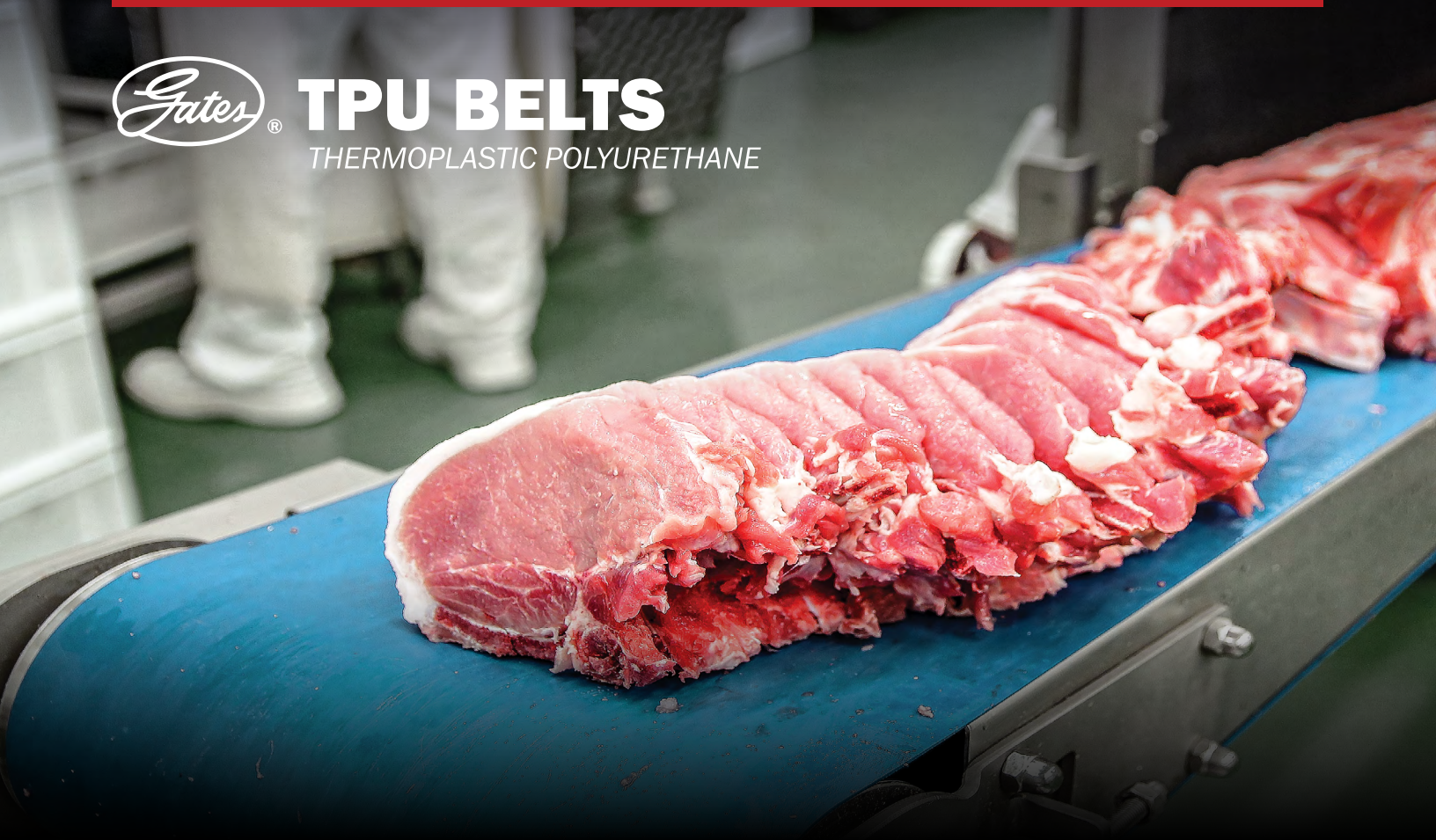




TPU BELTS

THERMOPLASTIC POLYURETHANE



POSICLEAN™ FOOD GRADE BELTING

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.

PC10

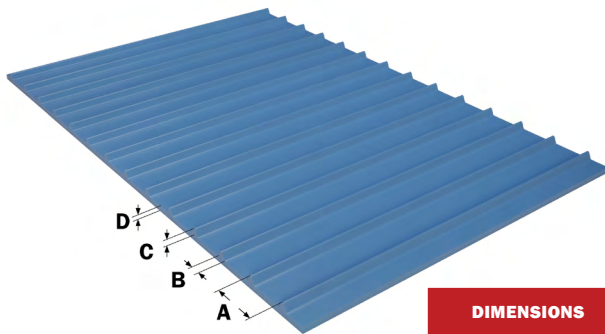
- 2" (50.8 mm) minimum pulley diameter, typically used for better handoffs
- Direct drop-in replacement for most 1" (25.4 mm) plastic modular belting
- Can be used with the PosiLace™ pin fastening system

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

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" (50.8 mm) plastic modular belt
 - 180° wrap around most 8, 10, and 12 tooth modular pulleys
- 4" (101.6 mm) minimum pulley diameter
- Can be used with the PosiLacepin fastening system



DIMENSIONS	PC10		PC20	
	mm	inch	mm	inch
A - Distance between teeth	25.9	1.020	50.0	1.970
B - Tooth width	4.3	0.169	7.6	0.301
C - Tooth height	3.5	0.138	5.7	0.226
D - Web thickness	2.8	0.110	3.3	0.128



BENEFITS

- Reduction of in-process bacteria growth
- Reduces cleaning labor by 50%, water usage by 45%
 - Saves 600 gallons (2300 liters) annually for every foot (30 cm) of 24" (60 cm) wide modular belt replaced
- Drop-in replacement for most 1" and 2" (25.4 mm and 50.8 mm) plastic modular belt
- Reduces or eliminates the need for snubbers and returnway supports
- Longer belt life due to minimal belt stretch

SYNCHRO-CLEAN PC10 SPECIFICATIONS

SPECIFICATIONS	STANDARD		METAL DETECTABLE	
	METRIC	IMPERIAL	METRIC	IMPERIAL
Designator	KV-FDA		KV-FMD	
Cords per cm/in widths	8	2	8	2
Pitch	26mm	1.02"	26mm	1.02"
Hardness - Shore A	95			
Surface Textures:	Smooth, IP, IT, ST			
Specific belt weight kg/m²	3.7		4	
Specific belt weight lbs/in	0.063		0.068	
Specific belt stiffness N/mm	1296			
Specific belt stiffness lbs/in	7400			
Min. Sprocket Dia. Service Temp above -4°C / 25°F	50.8mm	2"	82.6mm	3.25"
Min. Sprocket Dia. Service Temp below -4°C / 25°F	82.6mm	3.25"	191.1mm	4.55"
Min. Back Bend Dia. above -4°C / 25°F	88.9mm	3.5"	115.5mm	4.5"
Min. Back Bend Dia. below -4°C / 25°F	127mm	5"	152.4mm	6"
Service Temperature Range °C	-18° to 71°C		-18° to 71°C	
Service Temperature Range °F	+0° to 160°F		+0° to 160°F	
Ultimate Belt Strength N/mm	46		46	
Ultimate Belt Strength lbs/inch	265		265	
Min width	100mm	4"	100mm	4"

SYNCHRO-CLEAN PC10 SPECIFICATIONS (CONTINUED)

SPECIFICATIONS	STANDARD		METAL DETECTABLE	
	METRIC	IMPERIAL	METRIC	IMPERIAL
FASTENING OPTIONS				
Max. Allowable Tension (1)	N/cm	lbs/inch	N/cm	lbs/inch
Platen Weld (Finger 30 mm x 70 mm)	61	35	54	31
Platen Weld (Split Tooth)	54	31	54	31
Butt Weld	54	31	54	31
PosiLace	46	26	N/A	N/A
Flexco® UX1SS Clipper® Wire Hooks	54	31	54	31
Flexco APF150 Alligator® Plastic Rivet	N/A	N/A	N/A	N/A
Flexco APF100 Alligator Plastic Rivet	44	25	N/A	N/A
Flexco RS125 Alligator Ready Set™ Staple	N/A	N/A	N/A	N/A
Flexco RS62 Alligator Ready Set Staple	46	26	46	26

(1) Max allowable set as the lower of 25% yield strength or 2% stretch of weld or splice

STANDARD WIDTHS	cm	45.7	61.0	76.2	81.28	91.44	121.9
	inch	18	24	30	32	36	48
Standard		N/A	x	x	x	x	x
Metal detectable		N/A	x	x	x	x	x

SYNCHRO-CLEAN PC20 SPECIFICATIONS

SPECIFICATIONS	STANDARD		HI TORQUE		METAL DETECTABLE	
	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL
Designator	KV-FDA		HDK-FDA		KV-FMD	
Cords per cm/in widths	8	2	16	4	8	2
Pitch	50mm	1,97"	50mm	1,97"	50mm	1,97"
Hardness - Shore A	95					
Surface Textures:	Smooth, IP, IT, ST					
Specific belt weight kg/m²	5.2		5.2		5.8	
Specific belt weight lbs/in	0.089		0.089		0.095	
Specific belt stiffness N/mm	1296		2044		1296	
Specific belt stiffness lbs/in	7400		11800		7400	
Min. Sprocket Dia. Service Temp above -4°C / 25°F	95.5mm	3,76"	95.5mm	3,76"	127.4mm	5,02"
Min. Sprocket Dia. Service Temp below -4°C / 25°F	159.3mm	6,27"	159.3mm	6,27"	191.1mm	7,52"
Min. Back Bend Dia. above -4°C / 25°F	152.4mm	6"	152.4mm	6"	152.4mm	6"
Min. Back Bend Dia. below -4°C / 25°F	254mm	10"	254mm	10"	254mm	10"
Service Temperature Range °C	-18° to 71°C		-18° to 71°C		-18° to 71°C	
Service Temperature Range °F	+0° to 160°F		+0° to 160°F		+0° to 160°F	
Ultimate Belt Strength N/mm	46		88		46	
Ultimate Belt Strength lbs/inch	265		502		265	
Min width	125mm	5"	125mm	5"	125mm	5"
FASTENING OPTIONS						
Max. Allowable Tension (1)	N/cm	lbs/inch	N/cm	lbs/inch	N/cm	lbs/inch
Platen Weld (Finger 30 mm x 70 mm)	88	50	112	64	74	42
Platen Weld (Split Tooth)	70	40	70	40	60	34
Butt Weld	54	31	54	31	54	31
PosiLace	46	26	46	26	N/A	N/A
Flexco UX1SS Clipper Wire Hooks	54	31	72	41	54	31
Flexco APF150 Alligator Plastic Rivet	44	25	44	25	N/A	N/A
Flexco APF100 Alligator Plastic Rivet	N/A	N/A	N/A	N/A	44	25
Flexco RS125 Alligator Ready Set Staple	46	26	46	26	46	26
Flexco RS62 Alligator Ready Set Staple	N/A	N/A	N/A	N/A	N/A	N/A

(1) Max allowable set as the lower of 25% yield strength or 2% stretch of weld or splice

STANDARD WIDTHS	cm	45.7	61.0	76.2	81.3	91.4	121.9
	inch	18	24	30	32	36	48
Standard		N/A	x	x	x	x	x
Metal detectable		N/A	x	x	x	x	x
Hi Torque		N/A	x	x	x	x	—

SYNCHRO-CLEAN SPROCKET SPECIFICATIONS

SPECIFICATIONS	BELT TYPE	PC10					PC20				
	NO OF TEETH	6	8	10	12	20	6	8	10	12	16
Nom. Outside Diameter	mm	48	64	81	97	163	94	126	158	189	253
	inch	1.9	2.5	3.2	3.8	6.4	3.7	4.9	6.2	7.5	10
Nominal width	mm	25.4					32				
	inch	1					1.3				
Available bore size	metric square	N/A	N/A	40	40	40	40	40	40	40	40
	metric round	30	30	30	30	30	30	30	30	30	30
	imperial square	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	imperial round	1	1	N/A	N/A	1	1	1	1	1	1
Material		UHMW-PE					UHMW-PE				
Weight	g	27	54	77	136	449	145	308	500	770	1406
	lbs	0.06	0.12	0.17	0.30	0.99	0.32	0.68	1.10	1.70	3.10
Color											
Hardness - Shore A											

* 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)



1" Sprocket



2" Sprocket

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