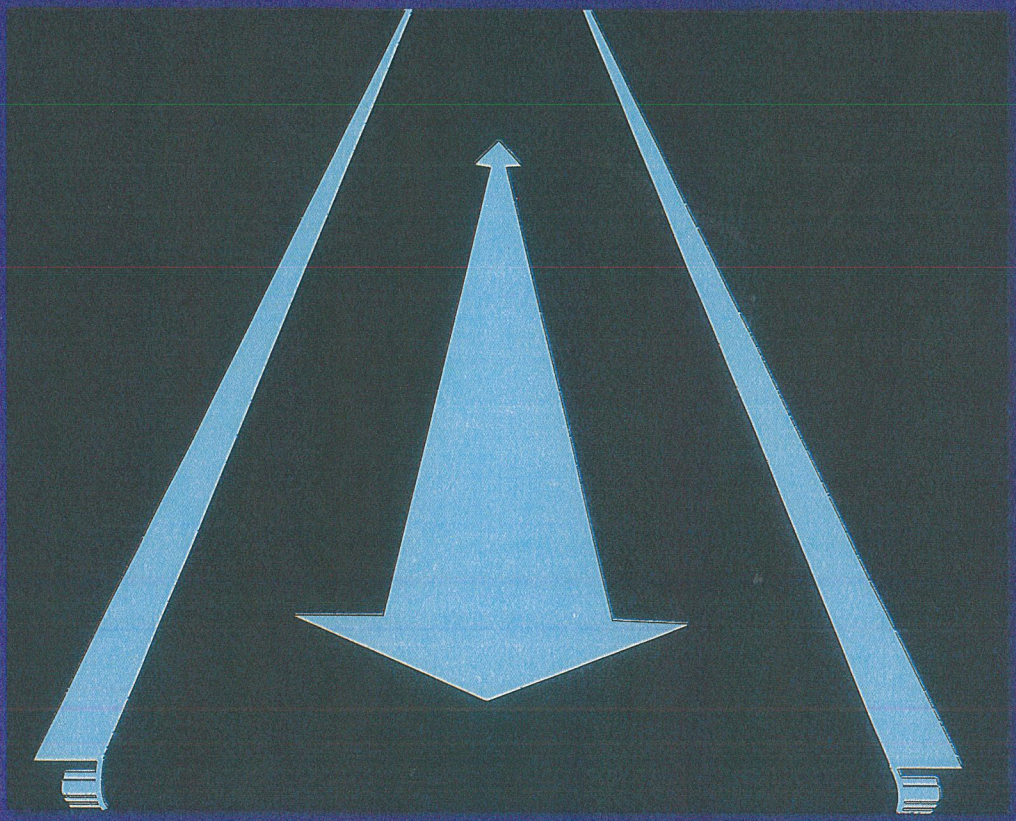
FLEXILON

CONVEYOR BELTING

Belt Specifications & Applications

Technical Information



TRANSFLEX

transflexbelting.com

Phone: (8621) 5116 2891 • Fax: (8621) 5116 7882

47F Hong Kong New World Tower (K11) • 300 Huai Hai Zhong Road • Puxi Shanghai China 200021

Technical Specifications and Characteristics

Total Thickness (approx. inches)	Weight (lb/ft-in)	Stress-Strain Value (approx. lb/inch width)	Electrostatic Characteristic	Acceptable Operating Temperature (approx.°F)	Minimum Diameter** (approx. inches)
.024	.007	11	not antistatic	-22 to +212°F	r.118~.315"
.031	.010	11	not antistatic	-22 to +212°F	r.118~.315"
.055	.022	11	perm. antistat.	-22 to +212°F	r.118~.315"
.035	.012	17	perm. antistat.	-22 to +212°F	r.118~.315"
.043	.019	17	perm. antistat.	-22 to +212°F	r.118~.315"
.047	.019	17	perm. antistat.	-22 to +212°F	r.118~.315"
.055	.024	17	not antistatic	-22 to +212°F	r.118~.315"
.063	.029	22	perm. antistat.	+14 to +176°F	1¼"
.055	.026	28	perm. antistat.	+14 to +176°F	2"
.067	.032	28	perm. antistat.	+14 to +176°F	2"
.067	.032	28	not antistatic	+14 to +176°F	2"
.075	.036	28	perm. antistat.	+14 to +176°F	2¼"
.087	.043	28	perm. antistat.	+14 to +176°F	2¾"
.114	.060	28	perm. antistat.	+14 to +176°F	3¼"
.028	.010	34	not antistatic	-22 to +212°F	1"
.055	.026	45	perm. antistat.	-22 to +212°F	1"
.055	.026	45	perm. antistat.	-22 to +212°F	1"
.059	.029	45	perm. antistat.	+14 to +176°F	3-4"
.079	.039	45	perm. antistat.	-22 to +212°F	2¾"
.083	.041	45	perm. antistat.	+14 to +176°F	2"
.083	.041	45	perm. antistat.	+14 to +176°F	2"
.102	.051	45	perm. antistat.	+14 to +176°F	2"
.102	.051	45	perm. antistat.	+14 to +176°F	2"
.122	.061	45	perm. antistat.	+14 to +176°F	2¾"
.142	.073	45	perm. antistat.	+14 to +176°F	3½"
.055	.028	67	perm. antistat.	+14 to +176°F	2¼"
.055	.022	67	perm. antistat.	-22 to +212°F	2¼"
.055	.022	67	perm. antistat.	-22 to +212°F	2¼"
.059	.024	67	perm. antistat.	-22 to +212°F	3"
.087	.041	67	perm. antistat.	+14 to +176°F	4¾"-6"
.098	.049	67	perm. antistat.	+14 to +176°F	4¾"-6"
.106	.053	67	perm. antistat.	+14 to +176°F	4¾"
.146	.073	67	perm. antistat.	+14 to +176°F	5"
.146	.073	67	not antistatic	+14 to +176°F	5"
.126	.063	67	perm. antistat.	+14 to +176°F	4¾"
.150	.077	101	perm. antistat.	+14 to +176°F	5½"
.169	.087	101	perm. antistat.	+14 to +176°F	6"
.209	.109	101	perm. antistat.	+14 to +176°F	6¼"
.189	.101	101	perm. antistat.	+14 to +176°F	6"
.169	.085	112	perm. antistat.	+14 to +158°F	5½"
.110	.056	56	not antistatic	+14 to +158°F	3⅛"
.169	.085	112	not antistatic	+14 to +176°F	6¾"-7¾"

**The smallest acceptable drum diameters were established at room temperature. Lower temperatures require larger diameters. When two values are shown, the larger one refers to operations with reversed bending.

r = Radius of nose-bar edges, since those types are mostly used in nose-bar applications.

M = multistrand fabric

Recommended Mechanical Fasteners

Alligator Belt Lacing®

Lace #	Belt Thickness
00	up to .063
1	.063 to .094
7	.094 to .141
15	.125 to .156
20	.156 to .188
25	.188 to .219

Alligator Belt Lacing® is a registered trademark of Flexible Steel Lacing Company.

Clipper Hooks®

Hook #	Belt Thickness
1D	.063 to .078
1A	.094 to .109
1	.125 to .156
2	.188 (small pulley)
3	.188 (medium pulley)
4	.250
4½	.250 (heavy duty)

Clipper Hooks® is a registered trademark of Clipper Belt Lacing Company.

U0 (urethane impregnated) cover is highly abrasion-resistant and has a low-friction surface for use against slider beds. It also has good release properties for many materials.

FLEXILON CONVEYOR BELTING

Polyester Fabric Conveyor Belts with Either a Smooth or Slightly Textured Carrying Surface

Product Line Descriptions and Ordering Codes				Construction: Tension Member Material	Tension Member Number of Plies	Running Side Coating: Material and Thickness (approx. inches)	Running Side Coating: Color	Running Side Coating: Surface	Carrying Side Coating: Material and Thickness (approx. inches)	Carrying Side Coating: Color	Carrying Side Coating: Surface
*E	2/1 U0/U0	1	FDA	warp and weft polyester fabric	1	Ureth. impregn.	transp.	slightly textured	Ureth. impregn.	transp.	textured
E	2/1 U0/U2	1,5	FDA white		1	Ureth. impregn.	transp.		Ureth. .008	white	smooth
*E	2/2 U0/0	1	FDA		2	Ureth. impregn.	transp.		bare surface	transp.	textured
*E	3/1 U0/U0	1	FDA		1	Ureth. impregn.	transp.		Ureth. impregn.	transp.	textured
E	3/1 U0/U2	1,5	FDA white		1	Ureth. impregn.	transp.		Ureth. .008	white	smooth
*E	3/2 U0/U0	1	FDA		2	Ureth. impregn.	transp.		Ureth. impregn.	transp.	textured
E	3/2 U0/U2	1,5	FDA white		2	Ureth. impregn.	transp.		Ureth. .008	white	smooth
*E	4/1 V5/V5		green		1	PVC .020	green		PVC .020	green	smooth
*E	5/2 0/0				2	bare surface	transp.		bare surface	transp.	textured
E	5/2 0/V3		black		2	bare surface	transp.		PVC .012	black	smooth
*E	5/2 0/V3	4,5	FDA white		2	bare surface	transp.		PVC .012	white	smooth
*E	5/2 0/V5		green		2	bare surface	transp.		PVC .020	green	smooth
E	5/2 V3/V5		green		2	PVC .012	green		PVC .020	green	smooth
*E	5/2 0V15 SF		green		2	bare surface	transp.		PVC .059	green	smooth
*E	6/1 U0/UH	1	FDA green		1	Ureth. impregn.	transp.		Ureth. hard.004	green	smooth
E	8/2 U0/U2		green		2	Ureth. impregn.	transp.		Ureth. .008	green	smooth
E	8/2 U0/U2		white		2	Ureth. impregn.	transp.		Ureth. .008	white	smooth
*E	8/2 U0/V/U2H		green		2	Ureth. impregn.	transp.		Ureth. hard .008	green	smooth
E	8/2 U0/U8				2	Ureth. impregn.	transp.		Ureth. .031	transp.	smooth
*E	8/2 U0/V5		green		2	Ureth. impregn.	transp.		PVC .020	green	smooth
*E	8/2 U0/V5	4,5	FDA white		2	Ureth. impregn.	transp.		PVC .020	white	smooth
*E	8/2 V5/V5		green		2	PVC .020	green		PVC .020	green	smooth
*E	8/2 V5/V5	4,5	FDA white		2	PVC .020	white		PVC .020	white	smooth
*E	8/2 V5/V10		green		2	PVC .020	green		PVC .039	green	smooth
*E	8/2 U0/V20		green		2	Ureth. impregn.	transp.		PVC .079	green	smooth
*E	12/2 U0/U0	1	FDA		2	Ureth. impregn.	transp.		Ureth. impregn.	transp.	textured
*E	12/2 U0/UH	1	FDA transparent		2	Ureth. impregn.	transp.		Ureth. hard .004	transp.	smooth
*E	12/2 U0/UH	1	FDA green		2	Ureth. impregn.	transp.		Ureth. hard .004	green	smooth
*E	12/2 UH/UH	1	FDA		2	Ureth. hard .004	transp.		Ureth. hard .004	transp.	smooth
*E	12/2 U0/V/U2H		green		2	Ureth. impregn.	transp.	smooth	Ureth. hard .008	green	smooth
E	12/2 V3/V/U2H		green		2	PVC .012	green		Ureth. hard .008	green	smooth
*E	12/2 U0/V7		green		2	Ureth. impregn.	transp.		PVC .028	green	smooth
*E	12/2 U0/V20		green		2	Ureth. impregn.	transp.		PVC .079	green	smooth
E	12/2 U0/V20	4	FDA white		2	Ureth. impregn.	transp.		PVC .079	white	smooth
*E	12/2 V5/V10		green		2	PVC .020	green	slightly textured	PVC .039	green	smooth
*E	18/3 V5/V5		green		3	PVC .020	green		PVC .020	green	smooth
*E	18/3 V5/V10	4	FDA white		3	PVC .020	white		PVC .039	white	smooth
*E	18/3 V5/V20		green		3	PVC .020	green		PVC .079	green	smooth
*E	18/3 UH/V20		green		3	Ureth. hard .004	black		PVC .079	green	smooth
*E	20/2 V3/V10		green		2	PVC .012	green		PVC .039	green	smooth
*E	10/M V1/V10		green		M	PVC .004	green		PVC .039	green	smooth
E	20/M U1/U3		green		M	Urethane .004	green		Ureth. .012	green	smooth

[1] U2, U0 and UH surfaces meet FDA requirements under 21 CFR 121.2562 (d), (e) and (f) for repeated use with dry, aqueous and fatty foodstuffs.

[4] PVC surfaces meet FDA requirements for direct contact with dry, aqueous and fatty foodstuffs under 21 CFR 121.2514 (e).

[5] These belts meet FDA requirements (as above) and are also approved by the USDA for handling meat and poultry.

*We are now able to offer these types of Flexilon Conveyor Belting in widths of up to 120". Previously, belts wider than 59" required a longitudinal splice.

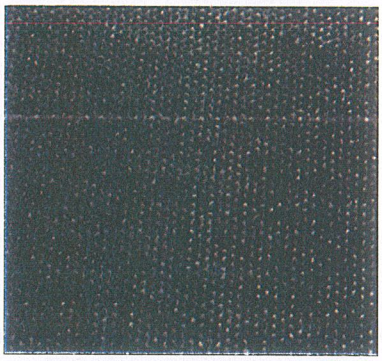
FLEXILON
CONVEYOR BELTING

Polyester Fabric Conveyor Belts with Either a Textured or Special Carrying Surface

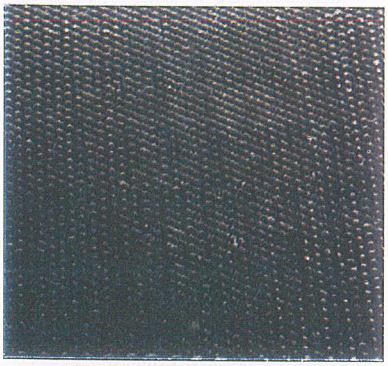
Product Line Descriptions and Ordering Codes			Construction								
			Tension Member		Running Side Coating				Carrying Side Coating		
			Material	Number of Plies	Material and Thickness (approx. inches)	Color	Surface		Material and Thickness (approx. inches)	Color	Surface
E	2/1 U0/U2 RF		warp and weft polyester fabric	1	Ureth. impregn.	transp.	slightly textured		Ureth. .008	brown	(2)
E	8/2 U0/V5 T/T			2	Ureth. impregn.	transp.			PVC .020	green	(1)
E	8/2 U0/V5 NP [4]	FDA		2	Ureth. impregn.	transp.			PVC .020	white	(3)
E	8/2 U0/V15 SG			2	Ureth. impregn.	transp.			PVC .059	green	(4)
E	8/2 U0/V20 AR			2	Ureth. impregn.	transp.			PVC .079	green	(5)
E	8/2 V5/V20 AR			2	PVC .020	green			PVC .079	green	(5)
E	8/2 U0/L			2	Ureth. impregn.	transp.			Leather .098	gray	Leather
E	12/2 U0/V20 FG [4]	FDA		2	Ureth. impregn.	transp.			PVC .079	white	(6)
E	12/2 UH/V40 K			2	Ureth. hard .004	black			PVC .157	green	(7)
E	30/3 V3/V15 T/T			3	PVC .012	green			PVC .059	green	(1)
E	15/M V1/V10 T/T			M	PVC .004	green			PVC .039	green	(1)
E	20/M U1/U3 T/T			M	Ureth. .004	green			Ureth. .012	green	(1)

Running Direction

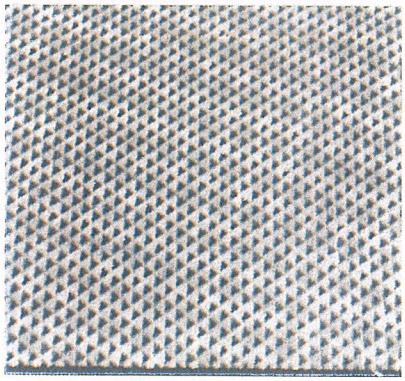
(1) T/T = Textured Surface



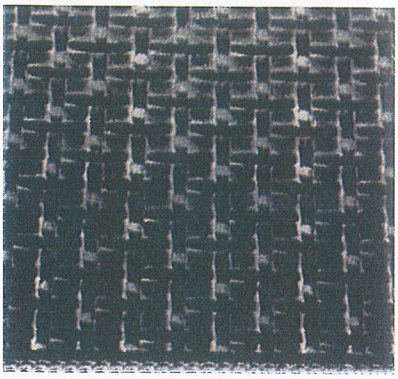
(2) RF = Rhombuslike fine Texture



(3) NP = Inversed-Pyramids Texture



(4) SG = LatticelikeTexture



[4] PVC surfaces meet FDA requirements for direct contact with dry, aqueous and fatty foodstuffs under 21 CFR 121.2514 (e).

Technical Specifications and Characteristics

Total Thickness (approx. inches)	Weight (lb/ft-in)	Stress-Strain Value (approx. lb/inch width)	Electrostatic Characteristic	Acceptable Operating Temperature (approx.°F)	Minimum Diameter** (approx. inches)
.035	.014	11	perm. antistat.	-22 to +212°F	r.118~.315"
.083	.041	45	perm. antistat.	+14 to +176°F	2"
.083	.041	45	perm. antistat.	+14 to +176°F	2"
.138	.065	45	perm. antistat.	+14 to +176°F	3"
.185	.078	45	perm. antistat.	+14 to +176°F	2¼"
.285	.077	45	perm. antistat.	+14 to +176°F	2¼"
.177	.072	45	perm. antistat.	+14 to +176°F	4"
.220	.092	67	not antistatic	+14 to +176°F	4¾"
.244	.095	67	perm. antistat.	+14 to +176°F	4¾"
.264	.126	168	perm. antistat.	+14 to +158°F	10"
.197	.102	84	not antistatic	+14 to +158°F	6"
.169	.085	112	not antistatic	+14 to +176°F	6¾"

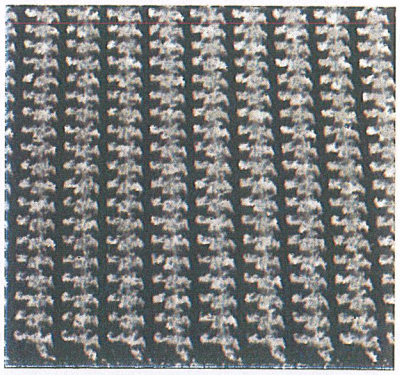
**The smallest acceptable drum diameters were established at room temperature. Lower temperatures require larger diameters. When two values are shown, the larger one refers to operations with reversed bending.

r = Radius of nose-bar edges, since those types are mostly used in nose-bar applications.

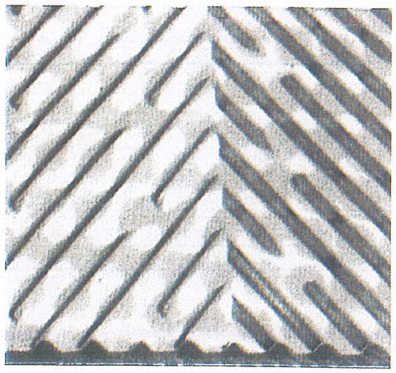
M = multistrand fabric

Running Direction

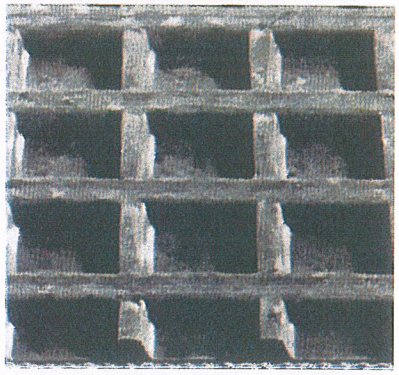
(5) AR = Roughtop Texture



(6) FG = Herringbone Texture



(7) K = Square Texture



Recommended Mechanical Fasteners

Alligator Belt Lacing®

Lace #	Belt Thickness
00	up to .063
1	.063 to .094
7	.094 to .141
15	.125 to .156
20	.156 to .188
25	.188 to .219

Alligator Belt Lacing® is a registered trademark of Flexible Steel Lacing Company.

Clipper Hooks®

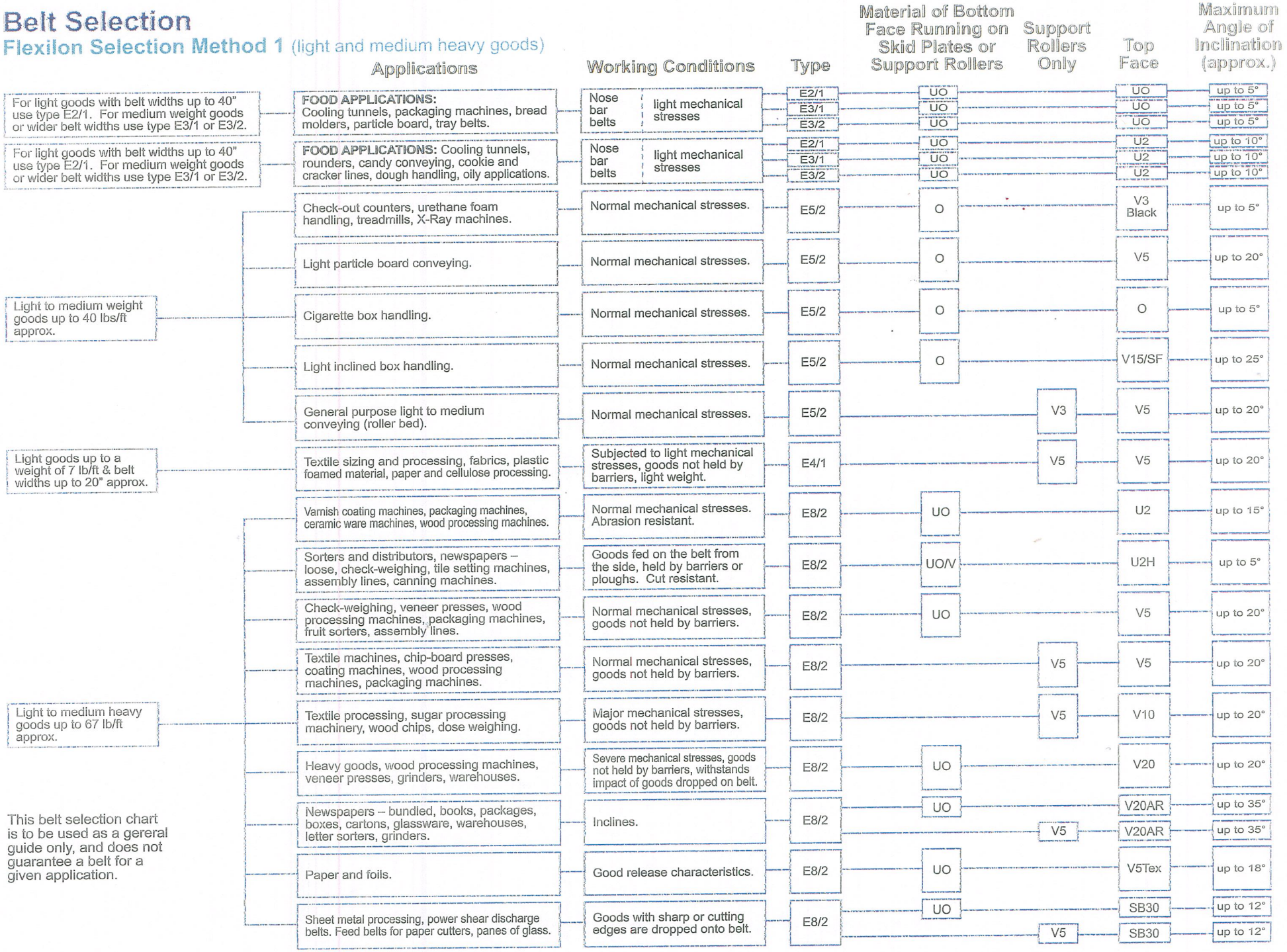
Hook #	Belt Thickness
1D	.063 to .078
1A	.094 to .109
1	.125 to .156
2	.188 (small pulley)
3	.188 (medium pulley)
4	.250
4½	.250 (heavy duty)

Clipper Hooks® is a registered trademark of Clipper Belt Lacing Company.

U0 (urethane impregnated) cover is highly abrasion-resistant and has a low-friction surface for use against slider beds. It also has good release properties for many materials.

Belt Selection

Flexilon Selection Method 1 (light and medium heavy goods)

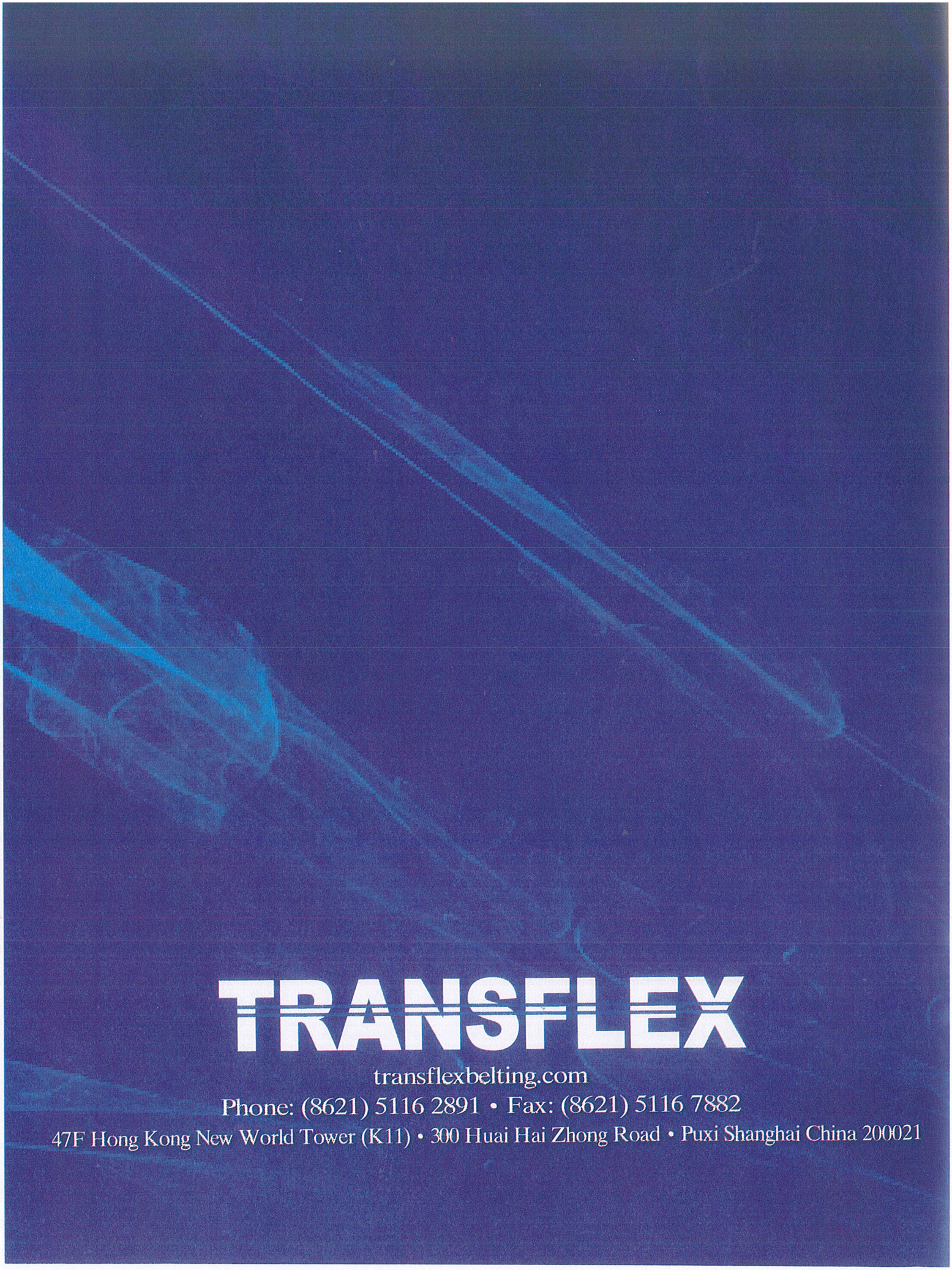


Belt Selection

Flexilon Selection Method 2 (heavy goods)

This belt selection chart is to be used as a gereral guide only, and does not guarantee a belt for a given application.

	Applications	Working Conditions	Type	Underside Running on Skid Plates or Support Rollers	Support Rollers Only	Top Face	Maximum Angle of Inclination (approx.)
Heavy goods weighing more tha 67 lb/ft.	Wood products, textile fibre conveying, plywood transfer lay boys, particle board.	Resists cutting and edgewear. Pulling and mechanical stress. Tough carcass.	E10/M	V1		V10	up to 20°
Heavy goods, weighing more than 67 lb/ft length on long and wide belts.	Tobacco processing (storage sections).	Heavy pulling stresses, low mechanical stresses, light goods, ccasional stop+ collect.	E12/2	UO		UH	up to 5°
	Airport terminals (packages, luggage, boxes etc.).	Heavy pulling stresses, heavy goods stopped by obstacles and/or ploughs etc.	E12/2	UO/V		U2H	up to 5°
	Chip-board machines, storage bin transfer belts. Airport terminals (packages, luggage, boxes, etc.).	Heavy pulling stresses and severe mechanical stresses; no ploughs, barriers, obstacles.	E12/2	UO		V20	up to 20°
	Airport terminals (packages, luggage, boxes etc.).	Heavy pulling stresses and heavy mechanical stresses; no ploughs, barriers, obstacles.	E12/2		V5	V10	up to 20°
	General purpose, where goods must not adhere to belt.	Extended widths, excessive loads, suitable where belts are backed up against barriers while belt is running.	E12/2	UO		UO	up to 5°
			E12/2 Smooth cover	UO		UH	up to 5°
			E12/2 Smooth cover Double carriers	UH		UH	up to 5°
Heavy goods weighing more than 67 lb/ft on long belts.	Plate glass conveying.	Heavy pulling stress and heavy mechanical stress.	E15/M	V1		V10	up to 20°
Heavy goods weighing more than 67 lb/ft length on long belts and also troughed belts.	Pallets, containers, machine parts, chip-discharge belts.	Heavy pulling stresses, no ploughs, no barriers; can be troughed.	E18/3		V5	V5	up to 20°
	Sugar industry, slaughterhouses.	Heavy pulling stresses and heavy mechanical stresses; no ploughs or barriers; can be troughed.	E18/3		V5	V10	up to 20°
	Grinders, stone polishing machines, packing machines, piece goods.	Heavy pulling stresses, severe mechanical stresses; no ploughs or barriers; can be troughed.	E18/3	UO		V20	up to 20°
	Bulk materials poured onto the belt, plaster board, chip-boards, check-weighers for bulk goods.	Heavy pulling stresses; severe mechanical stresses; no ploughs or barriers; can be troughed.	E18/3		V5	V20	up to 20°
Heavy goods weighing more than 67 lb/ft length on long belts and also troughed belts.	Automobile stamping plants, glass cullet conveyors, metal sheet lines, magnetic nail conveyors.	Excellent for use under abrasive or cutting conditions.	E20/M	UI		U3S	up to 20°


TRANSFLEX
transflexbelting.com
Phone: (8621) 5116 2891 • Fax: (8621) 5116 7882
47F Hong Kong New World Tower (K11) • 300 Huai Hai Zhong Road • Puxi Shanghai China 200021