



THERMOPLASTIC CATALOG

POLYFLEX, POLYFLEX DRIVE
& PROFILE EXTRUSIONS

ABOUT US



Shingle Belting is the only American manufacturer of full-line specialty belting for power transmission and conveying.

The company was founded **over 100 years ago**. The product line has grown to encompass many products, including the thermoplastic belting in this catalog.

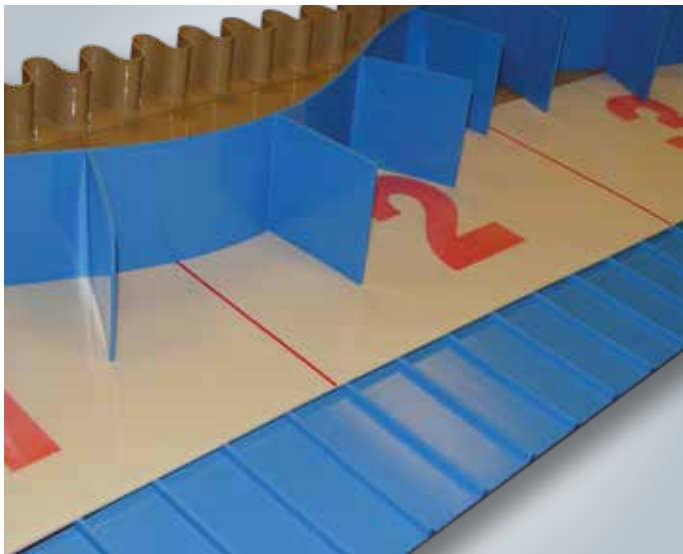
These products are used extensively in the food, textile, paper, printing, and many other industries. They are all manufactured at Shingle Belting's King of Prussia factory to exacting specifications. The company can custom extrude specialty profile belting conforming to a customer's individual specifications.

Throughout the years, Shingle Belting has retained its flexibility and desire to work with customers to solve any problem. The company offers full technical and engineering support. It operates belt schools to train its network of long-time, loyal distributors, as well as end users. Shingle has a fully-equipped research and development laboratory for quality control, testing of new products, and producing its own adhesives.

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- Available with textured or smooth surfaces
- USDA/FDA/3A Dairy Accepted
- Highly abrasion resistant
- No fabric to fray or delaminate
- Nonporous, homogeneous construction
- Wide temperature range
- V-Guides and cleats easily attached
- Available with sidewalls
- Available with subliminal pacing stripes and/or numbers
- Easily made endless



Shingle Polyflex belting is a solid extruded thermoplastic resin that outperforms conventional nitrile, PVC, and urethane fabric belts. It is available in two types: "S" for applications requiring normal loads and "H" for use with heavier loads. Both types are available in several thicknesses. A deep reverse-diamond impression is available for inclines and where greater product traction is required. The smooth side is used for horizontal conveying. Blue Polyflex is used for differentiating product color from the belt color and to reduce eye strain.

RESISTS BACTERIA BUILD-UP

Because Polyflex is nonporous, it won't absorb the oils and fats that provide a breeding ground for bacteria and fungus buildup.

LONGER BELT LIFE

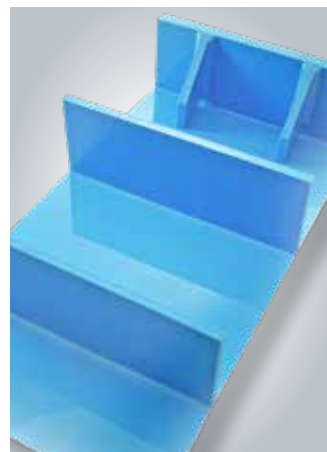
Polyflex is tough and durable, abrasion and stretch resistant with nothing to fray or delaminate. What's more, caustic cleanup solvents don't affect it. All of which means Polyflex wears better, cleans up faster, lasts longer, reduces downtime, and decreases operating costs.

FOOD APPLICATIONS

- Fish Processing
- Fruit and Vegetable Processing
- Confectionery Products
- Poultry and Meat Packing
- Bakery Industry
- Cereal Processing
- Cheese Processing

NONFOOD APPLICATIONS

- Pharmaceutical
- Metal Stamping
- Tobacco Products
- Printing Industry
- Photo Processing
- Waste Treatment Plants



POLYFLEX

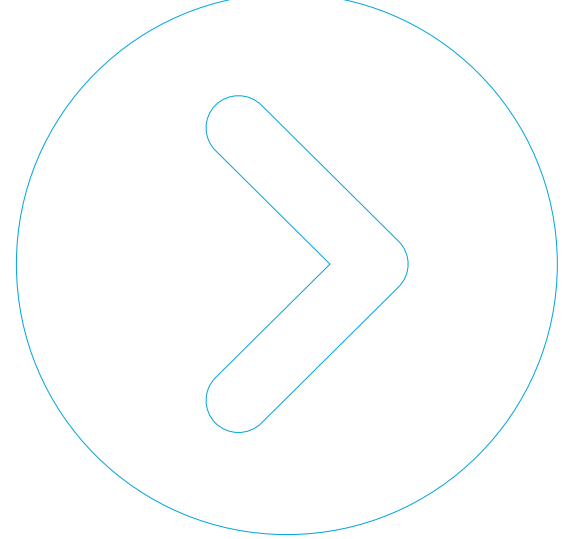
Polyflex S	Ambient Temperature Range: -15° to 160°F (-26° to 71°C)						
Type	Composition	Overall Thickness in. (mm)	Minimum Pulley Diameter in. (mm)	Coefficient of Friction	Belt Weight lbs./sq.ft.	Roll Dimensions	Colors
20S	Solid Gloss / Matte	0.080 (2.0)	1.5 (38)	0.40-0.50	0.5	72" x 200'	Tan/Blue
30S	Solid Gloss / Matte	0.118 (3.0)	2.75 (70)	0.40-0.50	0.75	72" x 200'	Tan/Blue
30S SLT	Solid Gloss / Embossed	0.118 (3.0)	2.75 (70)	0.50-0.35	0.75	72" x 200'	Blue
40S	Solid Gloss / Matte	0.156 (4.0)	5.0 (127)	0.40-0.50	1.0	72" x 200'	Tan/Blue
25SD	Solid Gloss / Inv. Diamond	0.118 (3.0)	2.0 (51)	0.40	.65	48" x 200'	Tan/Blue
.040 White	Solid Gloss / Gloss	0.040 (1.0)	0.5 (13)	0.40-0.50	0.25	36" x 100'	White

Also available: Polyflex Thermoplastic Lace (for use only on Polyflex S; available in tan or blue)

Polyflex H	Ambient Temperature Range: -40° to 225°F (-40 to 107°C)						
20H	Solid Gloss / Gloss	0.080 (2.0)	2.75 (70)	0.35-0.45	0.5	72" x 200'	Ivory
30H	Solid Gloss / Gloss	0.118 (3.0)	4.5 (114)	0.35-0.45	0.75	72" x 200'	Ivory/Blue
40H	Solid Gloss / Gloss	0.156 (4.0)	7.0 (178)	0.35-0.45	1.0	72" x 330'	Ivory/Blue
Track Guard	Solid Gloss / Gloss	0.118 (3.0)	4.5 (114)	0.35-0.45	0.75	72" x 200'	Yellow

If V-Guide is attached, increase minimum pulley diameter as follows:
 3L Section V-Guide, add 1-1/2"
 A Section V-Guide, add 2"
 B Section V-Guide, add 3" to 4"
 C Section V-Guide can only be attached to 3 mm belt or heavier, and you should add at least 12" to minimum pulley diameter.

Sidewall will increase minimum pulley requirements as follows:
 1.0" high, add 3.0"
 1.5" high, add 4.5"
 2.0" high, add 6.0"
 Sidewall can be attached to Polyflex "S" belt; it cannot be used on Polyflex "H" belt.



WORKING TENSION

Maximum working load per inch of width in pounds.

Tension	20H	30H	40H	20S	30S	40S	25SD
1%	16	21	28	7	10	13	7
2%	32	42	56	14	20	26	14
3%	48	63	84	21	30	38	21

WB = Total weight of belt

WP = Total weight of product

CF = Coefficient of friction

P = Belt pull

PIW = lbs. of pull per inch of width

$$(WP + WB) \times CF = P$$

$$P \div \text{width of belt} = \text{PIW}$$

*** Do not exceed working loads
in Working Tension Table*

PRETENSIONING & INSTALLATION

Polyflex must be installed under tension at a minimum of 1%. The belt is tensioned by using the take-up or come-alongs. (If Polyflex is not pretensioned, it may stretch beyond the limits of the take-up.) When using the take-up system, bring the pulleys as close together as possible, using all available take-up. To determine the tension applied to the belt, put two marks on the return side of the belt 25" apart. When the space between these marks measures 25-1/4", then 1% tension has been applied. When the space between these marks measures 25-1/2", then 2% tension has been applied and so on.

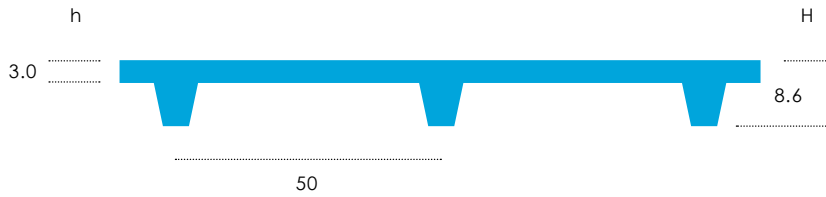
On-site installation and repair are simple with Polyflex. There's no waiting for heavy equipment or specially skilled personnel and no lost downtime. A lightweight aluminum joiner, a hot air gun, and welding rod are all that's needed for a fast, strong splice.

- Materials, tools, and instructions are available from your Shingle distributor. For inclined conveying or special applications, cleats and V-Guides may be easily welded to the material.
- Polyflex can be joined by welding or using plastic or metal fasteners.
- Polyflex can also be finger-spliced or skived and vulcanized in the traditional conveyor belt method.
- Polyflex tools available:
24", 36" and 48" Automatic Splicer
24", 36" and 48" Joiner
Leister gun
7 mm and 9 mm nozzles
Spatula knife



Polyflex Drive

Extruded thermoplastic positive drive belting with a homogeneous construction and integral teeth on the pulley side.

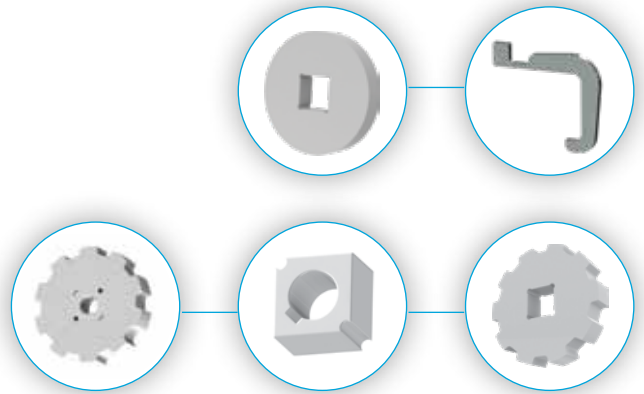
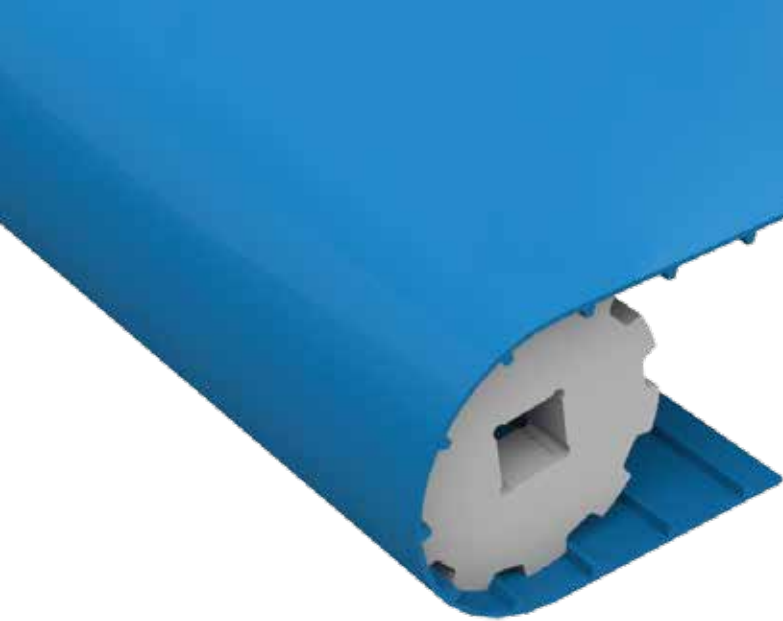


h= Belt Thickness
H= Belt Thickness + 5.5 mm
Pitch Between Teeth: 50 mm
Standard Belt Width:
1850 mm / 72.8 in.

Polyflex Drive 30S - PD50		
Color	Blue	
Surface Finish	Smooth	
Durometer	95 ShA	
FDA/USDA	Yes	
	(in.)	(mm)
Pitch	1.96	50
Thickness (Belt)	0.120	3.0
Overall Thickness	0.338	8.6
Minimum Pulley	3.75	95
Manufactured Width	72.8	1850
	-	-
Weight	0.983 lbs/ft ²	4.8 kg/m ²
Temperature Range	-4°F to +140°F	-20°C to +60°C
Coefficient of Friction		
HDPE	0.20	
S/S	0.52	

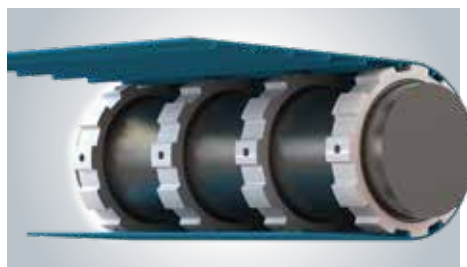
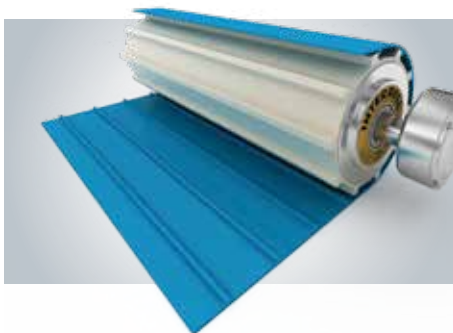


Also available in 25 mm. pitch –
Call 800-345-6294 for more information



Polyflex Drive Accessories						
Item Description	Product	Material	Square Bore (mm/in.)	Diameter (mm/in.)	# of Teeth	Width (mm/in.)
PDS-38-95/6	Sprocket	HDPE	38 / 1.5	95 / 3.7	6	32 / 1.25
PDI-38-83	Idler	HDPE	38 / 1.5	83 / 3.27	-	32 / 1.25
PDS-38-128/8	Sprocket	HDPE	38 / 1.5	128 / 5.04	8	32 / 1.25
PDI-38-116	Idler	HDPE	38 / 1.5	116 / 4.56	-	32 / 1.25
PDS-38-161/10	Sprocket	HDPE	38 / 1.5	161 / 6.38	10	32 / 1.25
PDI-38-149	Idler	HDPE	38 / 1.5	149 / 5.86	-	32 / 1.25
PDS-38-193/12	Sprocket	HDPE	38 / 1.5	193 / 7.60	12	32 / 1.25
PDI-38-181	Idler	HDPE	38 / 1.5	181 / 7.12	-	32 / 1.25
PDC-38	Retaining Clip	S/S	38 / 1.5	-	-	-

As an alternative to a sprocket/shaft drive, Polyflex Drive can be driven with S/S or plastic profiled drums, or with sprockets mounted on a smooth drive drum.

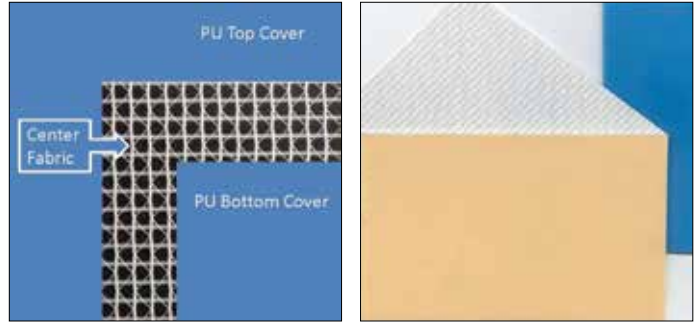


Polyflex Drive welder

REINFORCED POLYFLEX

GENERAL INFORMATION

Polyflex SR and Polyflex SCR are composed of solid elastomeric material and reinforced with polyester fabric to produce an exceptional hybrid belt. This belting provides all the benefits of both solid thermoplastic and standard monofilament conveyor belting. The unique cover is nonporous to resist oils and fats to prevent bacteria and fungus buildup. The reinforced fabric minimizes stretch and reduces the amount of take-up necessary. Reinforced Polyflex can be edge-capped to further protect the product conveyed from contamination.



GENERAL CHARACTERISTICS

- 92 Shore A (except 20SR-LD is 85A)
- Nonporous cover
- Low stretch core
- Easily made endless

APPLICATIONS

- Conveyors with very little take-up
- Applications with heavy loads
- Long conveyors
- Meat, poultry, bakery, and cheese processing

Polyflex S Reinforced Ambient Temperature Range = -15° to 150°F (-26° to 65°C)									
Belt Type	Composition		Overall Thickness (in.)	Pull for 1% Elongation (lbs/in.)	Min. Pulley		Belt Weight (lbs/ft ²)	Roll Dimensions	Colors
	Top Cover	Bottom Cover			Normal Flex (in.)	Back Flex (in.)			
Polyflex 20SR	Solid Elastomeric	Polyester Fabric	0.080	23.0	2.0	3.0	0.50	72" x 200'	Beige
Polyflex 20SR-LD	Solid Elastomeric	Polyester Fabric	0.080	23.0	0.6	2.0	0.50	72" x 200'	Blue
Polyflex 30SR	Solid Elastomeric	Polyester Fabric	0.120	23.0	3.0	4.5	0.75	72" x 200'	Beige
Polyflex 25SCR	Solid Elastomeric	Solid Elastomeric	0.100	23.0	2.0	3.0	0.50	72" x 200'	Blue
Polyflex 25SCR-IP	Solid Inv. Pyramid	Solid Elastomeric	0.100	23.0	3.0	4.0	0.75	48" x 200'	Blue



Polyflex Joining
Tools available in
24", 36", & 48" widths

HOLLOW & SOLID ROUNTHANE

EXTRUDED URETHANE ROUND BELTING
EXTRUDED POLYESTER ROUND BELTING

- **Easy to install – even on enclosed drives**
- **Durable**
- **FDA / USDA accepted**
- **Reduces inventory problems**

Rounthane is extruded round thermoplastic belting. This versatile product is simple to install and maintain in both conveying and power transmission applications.

TYPES OF ROUNTHANE

HOLLOW

- Made endless with a connector or heat
- Available in yellow or clear

SOLID

- Made endless with heat
- Available in yellow, orange, clear, and ivory



INSTALLATION & MAINTENANCE

Rounthane reduces downtime to minutes. Simply cut to desired length from the roll. Join the material by connector or by heat using Shingle's Rounthane joiner. Rounthane runs clean as well as resists dust and deterioration from moisture, oils, greases, solvents, and most chemicals.

TO CALCULATE CUT LENGTH:

OC - (3.1416 x d)

IC + (3.1416 x d)

Where:

OC = outside circumference

IC = inside circumference

d = belting diameter

CONVEYING APPLICATIONS

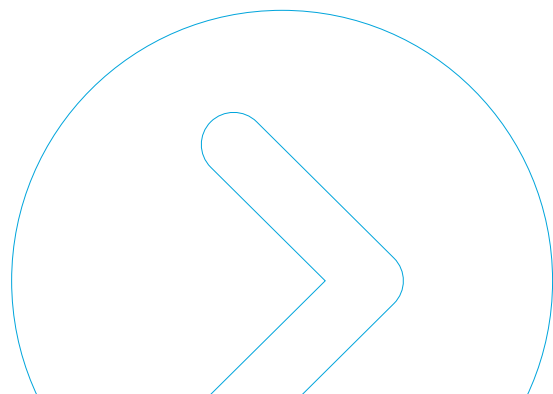
Use Rounthane to replace flat belts, rubber V-Belts, and rubber or leather round belts. It is ideal for complex systems involving multi-directional conveying and when conveying material like glass, tile, polished metal, etc. Rounthane offers the advantage of minimal surface contact. It is a favorite in the food processing industries since it will not harbor bacteria and is easy to clean. Multiple strands of Rounthane may be used to replace flat conveyor belts.

POWER TRANSMISSION APPLICATIONS

Hi-Cap Rounthane offers the advantages of easy, quick installations and long life in light-duty applications. Its friction characteristics are excellent. Do not use Hi-Cap Rounthane where clutching or slipping is required.

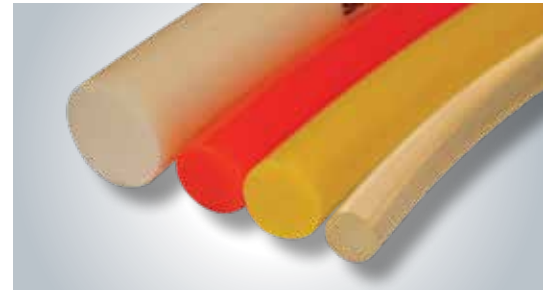
H.P. = Belt Load (lbs.) x Belt Speed (FPM)

33,000



HOLLOW ROUNTHANE

Rounthane Diameter		Hollow Yellow & Hollow FDA Clear				
		Minimum Pulley Diameter		Working Load in lbs. @ Prescribed Tension		
in.	(mm)	in.	(mm)	4%	6%	8%
3/16	(4.76)	1.5	(38.1)	2.6	3.4	4.3
1/4	(6.35)	2.0	(50.8)	6.2	8.4	10.2
5/16	(7.94)	2.5	(63.5)	8.2	10.6	13.0
3/8	(9.53)	3.0	(76.2)	11.8	15.2	18.8
1/2	(12.70)	4.0	(101.6)	21.0	27.0	31.6
9/16	(14.29)	4.5	(114.3)	29.6	42.8	56.0
5/8	(15.88)	5.0	(127.0)	38.4	60.0	72.8



SOLID ROUNTHANE

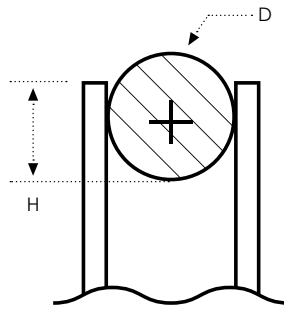
Rounthane Diameter		Clear Yellow Orange					Solid High-Cap Ivory				
		Minimum Pulley Diameter		Working Load in lbs. @ Prescribed Tension			Minimum Pulley Diameter		Working Load in lbs. @ Prescribed Tension		
in.	(mm)	in.	(mm)	4%	6%	8%	in.	(mm)	4%	6%	8%
1/8	(3.18)	1.0	(25.5)	3.0	4.1	5.0	1.5	(38.1)	13.0	N/A	N/A
3/16	(4.76)	1.5	(38.1)	6.8	9.3	11.2	3.0	(76.2)	29.3	N/A	N/A
1/4	(6.35)	2.0	(50.8)	13.6	17.6	21.2	4.0	(101.6)	46.4	N/A	N/A
5/16	(7.94)	2.5	(63.5)	14.4	20.5	25.6	5.0	(127.0)	77.9	N/A	N/A
3/8	(9.53)	3.0	(76.2)	21.2	27.5	33.1	6.0	(152.4)	118.4	N/A	N/A
1/2	(12.70)	4.0	(101.6)	25.6	36.4	45.5	7.0	(177.8)	142.4	N/A	N/A
9/16	(14.29)	4.5	(114.3)	32.0	45.6	58.4	-	-	-	-	-
5/8	(15.88)	5.0	(127.0)	44.8	64.8	80.0	-	-	-	-	-
3/4	(19.1)	6.0	(152.4)	56.0	81.0	100.0	-	-	-	-	-

SPECIFICATIONS — ROUNTHANE

Type	Composition	Color	Durometer	Recommended Tension	Temperature Range	Coefficient of Friction	FDA/USDA Approval	Joining
Hollow	Polyurethane	Yellow, Clear	85 Shore A	4-8%	-25° to 150°F (-31° to 65°C)	0.4-0.6	Direct Food	Connector/Heat
Solid	Polyurethane	Yellow, Orange, Clear	85 Shore A	4-8%	-25° to 150°F (-31° to 65°C)	0.4-0.6	Direct Food	Heat
Solid High Capacity	Polyester	Ivory	3/16"-3/8" 63 Shore D 1/2" 55 Shore D	4%	-30° to 225°F (-35° to 107°C)	0.3-0.4	Direct Food	Heat

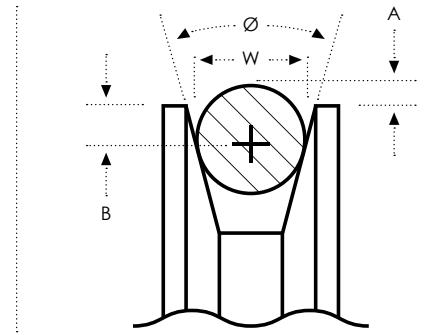
Rounthane Belting may be used in a round grooved pulley (see figure 1), or in standard v-sheaves (see figure 2).

FIGURE 1



D=Diameter of Round Belt
Dim. H to be $>D/2$ depending upon application

FIGURE 2



HOW TO BOND ROUNTHANE

BY CONNECTOR:



1. Cut belt to correct length. Cut square across.



2. Use pliers to insert connector to halfway position.



3. Push connector into hole in other end of belt.



4. Walk belt on until connector is fully seated.

BY HEAT:



1. Cut belt to correct length. Cut square across.



2. Clamp in Joiner Tool. Bring ends against heating paddle.



3. Remove paddle. Bring heated ends together. Hold until cool.



4. Trim flashing with knife or wheel. Flex to check for voids.

ROUND BELT IN V-SHEAVE DATA

Belt Diameter		A		B		Standard Sheave Size	W		Ø
in.	(mm)	in.	(mm)	in.	(mm)		in.	(mm)	
3/16	(4.76)	0.016	(.41)	0.078	(1.98)	"2L" Sec	0.243	(6.17)	34°
1/4 5/16	(6.35) (7.94)	0.049 0.094	(1.24) (2.39)	0.174 0.062	(4.42) (1.57)	"3L" Sec	0.360	(9.14)	34°
3/8 1/2	(6.35) (12.70)	0.049 0.094	(1.24) (2.39)	0.168 0.047	(4.27) (1.19)	"A" Sec	0.494	(12.55)	34°
9/16 5/8	(14.29) (15.88)	0.199 0.340	(5.05) (8.64)	0.082 0.027	(2.08) (.69)	"B" Sec	0.637	(16.18)	34°

VEETHANE

EXTRUDED URETHANE V-BELTING
EXTRUDED POLYESTER V-BELTING

- Far tougher than rubber
- Chemically resistant
- Ideal for enclosed drives
- FDA/USDA accepted

Veethane belting is a thermoplastic extrusion. It combines strength with flexibility. It has a coefficient of friction greater than rubber and also maintains its characteristics over a wide temperature range.

Because Veethane is made from a pure polymer, it has a non-porous surface which will not attract lint or dust, absorb fats or greases, or harbor bacteria. Veethane is supplied in 100 foot rolls. The user can cut the Veethane to length and heat seal it, even on enclosed drives, so that inventory problems and downtime are reduced.

TYPES OF VEETHANE

There are two types of Veethane. Standard Veethane is extruded from polyurethane and is primarily used for conveying applications. It is available in Yellow and Orange and is highly flexible, heat resistant, and FDA/USDA approved for food applications.

Hi-Cap Veethane, extruded from polyester, is primarily for power transmission applications. It is virtually impervious to common industrial contaminants that can weaken or destroy rubber V-belts, and because Veethane has no internal cords, it can absorb sudden shocks without stretching or breaking. Hi-Cap Veethane is also FDA and USDA accepted for use in the food industry.

INSTALLATION

To install, the user cuts desired length from the 100 foot roll and joins it with the Veethane joining tool. See photos on page 11.

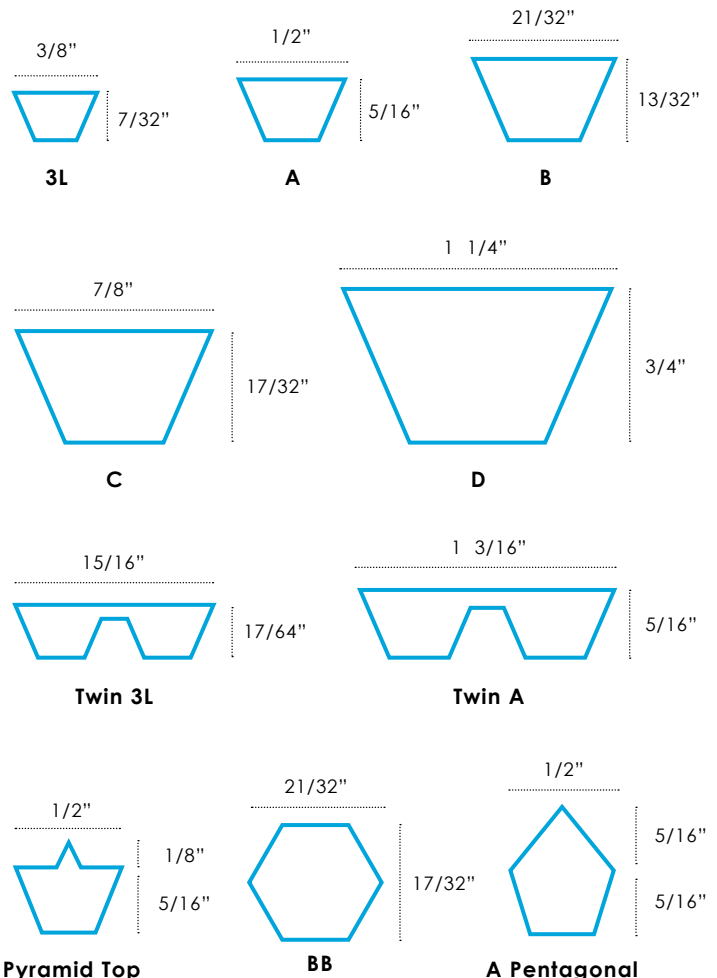
CONVEYING APPLICATIONS

Veethane has a high resistance to wear and can be used to convey abrasive materials such as cinder blocks, grinding wheels, and objects made of glass, metal or plastic. Veethane is non-marking, so it is excellent for conveying paperboard packages. Pentagonal Veethane is ideal for conveying glass or tile.

POWER TRANSMISSION APPLICATIONS

Hi-Cap Veethane can replace belts in many drive applications. Matched sets of Veethane belts are easy to install on multiple belt drives by measuring them to the same length before bonding. Veethane should not be installed in cross-drive applications or as a "slip" clutch.

STANDARD V-SECTIONS



SPECIFICATIONS — VEETHANE

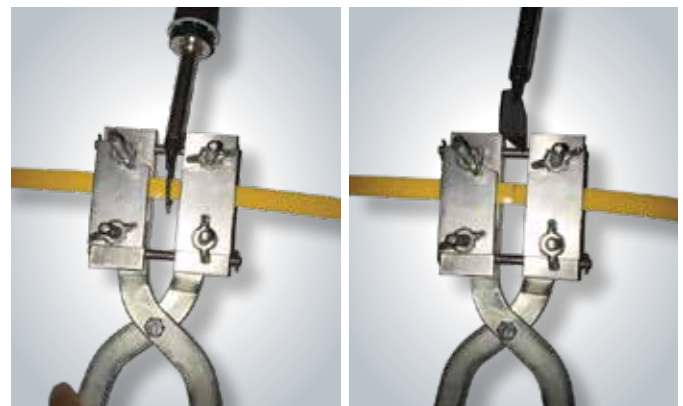
Type	Composition	Shape	Durometer	Recommended Tension	Temperature Range	Coefficient of Friction	FDA/USDA Approval	Color
Standard	Polyurethane	3L, A, B, C Twin 3L, Twin A, A Pentagonal	85 Shore A	6%	-25° to 150°F (-31° to 65°C)	0.4-0.6	Direct Food	Yellow, Orange
Hi-Cap	Polyester	3L, A, B, C, D	55 Shore D	4% (Trans.) 1-2% (Convey)	-30° to 225°F (-34° to 107°C)	0.4	Direct Food	Ivory

VEETHANE

Belt Profile	Standard					HI-CAP				
	Minimum Pulley Diameter		Working Load in lbs. @ Prescribed Tension			Minimum Pulley Diameter		Working Load in lbs. @ Prescribed Tension		
	in.	(mm)	4%	6%	8%	in.	(mm)	4%	6%	8%
3L*	2.50	(63.5)	17.8	24.8	29.8	3.25	(82.6)	54.6	N/A	N/A
A*	3.50	(88.9)	43.0	58.4	70.4	4.75	(120.7)	91.2	N/A	N/A
B*	4.50	(114.3)	56.8	80.0	97.6	5.25	(133.4)	156.8	N/A	N/A
C*	6.00	(152.4)	96.0	136.0	168.0	7.00	(177.8)	273.1	N/A	N/A
D*	-	-	-	-	-	10.00	(254.0)	420.0	N/A	N/A
Twin 3L*	2.50	(63.5)	36.0	50.0	60.0	-	-	-	-	-
Twin A*	3.50	(88.9)	86.0	116.0	140.0	-	-	-	-	-
A Pentagonal	7.00	(177.8)	-	-	-	-	-	-	-	-
A Pyramid Top	3.50	(88.9)	43.0	58.0	70.0	-	-	-	-	-

*Above profiles also available with Supergrip (green roughtop) cover

Approximate Hi-Cap Veethane HP Ratings (4% Tension)							
VEE Section	Pulley Diameter		HP @ FPM				
	in.	(mm)	1000	2000	3000	4000	5000
A	4	(101.6)	1.0	3.0	5.0	7.0	9.0
	6	(152.4)	2.0	4.5	7.0	9.0	11.0
B	6	(152.4)	3.0	5.5	8.0	10.5	13.0
	7	(203.2)	4.0	7.0	10.0	12.5	15.0
C	10	(254.0)	6.0	9.5	13.0	16.0	19.0
	14	(355.6)	8.0	12.5	17.0	20.0	23.0
D	13	(330.2)	11.0	15.5	20.0	25.0	30.0
	15	(381.0)	14.0	21.0	28.0	31.5	35.0



1. Cut belting to 90° angle.
2. Place in joiner tool.
3. Bring ends against heating paddle.

4. Retract paddle and join ends. After cooling, trim flashing.

RUFFTHANE

EXTRUDED TEXTURED URETHANE
ROUND BELTING

- Easy to install
- Reduces inventory problems
- Durable
- Excellent coefficient of friction
- Available in inches or millimeters
- Available in green or yellow
- 88 Shore A

CONVEYING APPLICATIONS

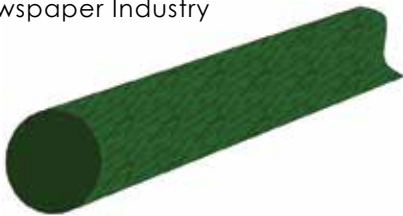
Use Ruffthane to replace flat belts, rubber V-belts, and rubber or leather round belts. It is ideal for complex systems involving multi-directional conveying. Multiple strands of Ruffthane are ideal for conveying material like glass, tile, polished metals, etc.

JOINING RUFFTHANE

Join by heat; see instructions on page 9.

RUFFTHANE APPLICATIONS

- Mail Sorting Applications
- Can Conveying
- Laundry Applications
- Metal Detectors
- Food Industry
- Newspaper Industry



RUFFTHANE

Belt Diameter	Minimum Pulley Diameter		Working Load in lbs. @ Prescribed Tension		
	mm	in.	(mm)	4%	6%
2	0.75	(19.0)	1.0	1.4	1.7
3	1.0	(25.0)	1.7	2.3	3.0
4	1.25	(32.0)	2.8	4.0	5.5
5	1.5	(38.0)	3.9	5.6	7.7
6	2.0	(50.0)	6.0	8.5	10.5
7	2.25	(57.0)	8.1	11.6	14.5
8	2.50	(63.5)	10.8	15.6	19.4
10	3.0	(76.2)	16.1	22.8	28.7
12	3.75	(95.0)	23.1	32.9	41.0
15	4.75	(121.0)	37.7	54.2	68.0
in.					
.125	1.0	(25.5)	1.7	2.3	3.0
.1875	1.5	(38.1)	3.8	5.6	7.1
.25	2.0	(50.8)	6.8	10.0	12.8
.3125	2.5	(63.5)	10.8	15.6	19.4
.375	3.0	(76.2)	14.4	20.5	25.6
.5	4.0	(101.6)	25.6	36.4	45.5
.5625	4.5	(114.3)	32.0	45.6	58.4
.625	5.0	(127.0)	44.8	64.8	80.0
.75	6.0	(152.0)	56.0	81.0	100.0

$$\text{H.P.} = \frac{\text{Belt Load (lbs.)} \times \text{Belt Speed (FPM)}}{33,000}$$

SPECIFICATIONS — RUFFTHANE

Color	Recommended Tension	Temperature	Coefficient of Friction	Joining
Green (mm)	4-8%	-25° to 150°F (-31° to 65°C)	0.3-0.4	Heat
Yellow (in.)	4-8%	-25° to 150°F (-31° to 65°C)	0.3-0.4	Heat

FLAT EXTRUSIONS

Shingle manufactures flat extrusions in both polyester and urethane. Our flat belt can easily be made endless using a heat paddle. This material is versatile. It can be used in traditional conveyor applications, as well as unconventional situations. See chart for standard widths and thicknesses.

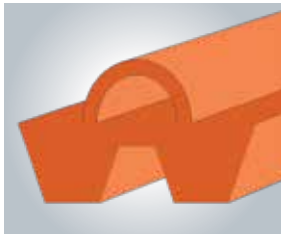
Thickness	Width	Color	Durometer
0.090 in.	1 in., 1.5 in., 2 in.	Tan	85 Shore A
0.040 in.	36 in.	White	85 Shore A

SPECIAL EXTRUSIONS

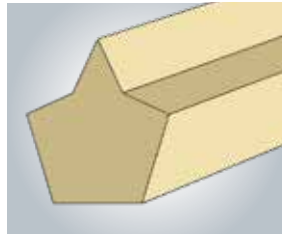
SPECIAL EXTRUDED BELTING

Not every machine design conforms to the range of shapes available in our standard Rounthane and Veethane lines. Shingle's Extrusion Department has the flexibility to meet the special needs of unusual applications. We will work with your design criteria to produce belting that is individualized and specific

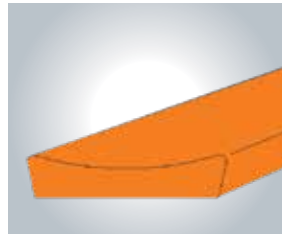
to your requirements. We can extrude products in urethane or polyester and other resins. Any color can be run and durometers can be varied. Contact our factory for minimum quantities and other details.



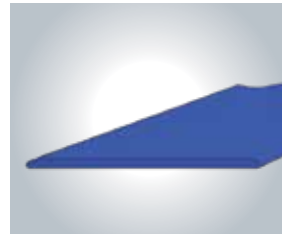
Bubble Top



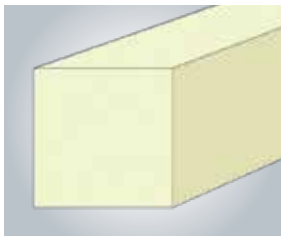
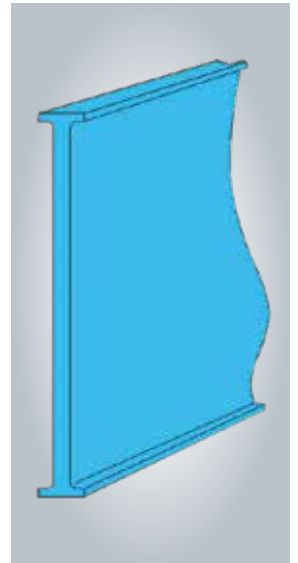
Ridge Top



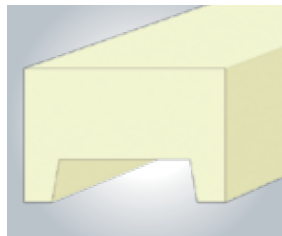
Circular Profile



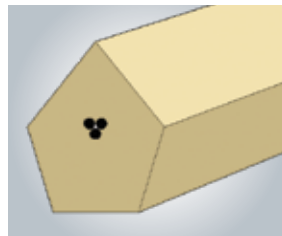
Flat Extrusion



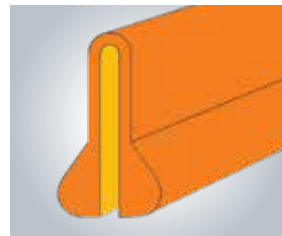
Square Potato Profile



Channel Potato Profile



Reinforced Pentagonal



Edge Guide

These drawings represent only a small portion of our custom extrusion capabilities. Inquiries welcome for PVC, Urethane, or Polyester.

DRIVER PAD (ALR)

- Capable of handling high speeds in excess of 350 FPM
- Top Quality Resin – resists abrasion for long wear
- Excellent performance on difficult "S" turns
- Excellent coefficient of friction
- AG Chain RC50 with extended pin also available



REINFORCED EXTRUSIONS

POLYESTER REINFORCED HI-CAP BELTING
POLYESTER REINFORCED URETHANE BELTING

- Replaces Nylon/Steel and other reinforced belts
- Superior splice strength
- Splices easily in minutes
- Minimal stretch
- Increases productivity

ELASTOMERS

- Urethane for greater flexibility
- Hi-Cap for superior wear and strength

FAST, EASY SPLICING

You won't lose hours of production waiting for steel cable to be braided. With our tool kit, anyone can make a perfect splice in less than 15 minutes, virtually eliminating downtime – and the lighter weight makes installations safer too. Urethane can be joined using only a heat paddle.

STRETCH-RESISTANT

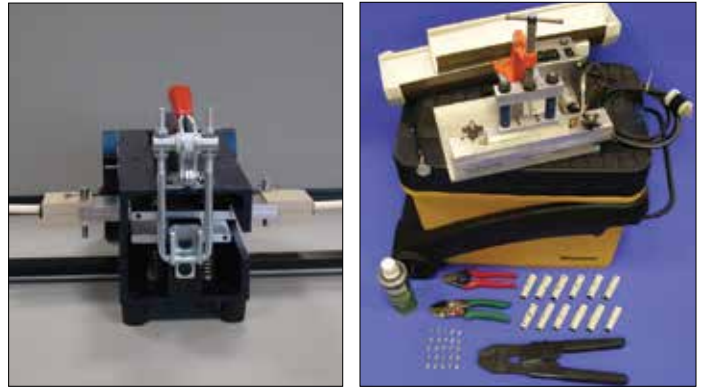
Because of their exceptionally strong reinforcement, Shingle extrusions keep their shape, maintain their tension, and will not stretch even under the stress of heavy loads. That means no surge, less downtime, fewer “knockdowns,” and better productivity.

1,000-FOOT LENGTHS

Unlike competitive plastic reinforced cables, Shingle's cable is manufactured in 1,000 foot lengths.

POLYESTER CORD REINFORCED & STAINLESS STEEL REINFORCED APPLICATIONS

- Cable for Canning & Filling Lines
- Live Roller Conveyors
- Olive Sorting
- Potato and Fruit Sorting
- Veneer Hold-down Machines
- Panel Board Paint Rollers



Shingle's Ultra and Pneumatic Joiners include splicing tool and all other accessories required to splice cable ends.

POLYESTER CORD REINFORCED SPECIFICATIONS

Diameter (in.)	Elastomer	Minimum Pulley (in.)	Temperature Range	Coefficient of Friction	Color
1/4	Hi-Cap	5.00*	-30° to 225°F (-34° to 107°C)	0.3 to 0.4	Ivory
3/8	Urethane	6.00	-25° to 150°F (-32° to 65°C)	0.4 to 0.6	Yellow
1/2	Urethane	6.75	-25° to 150°F (-32° to 65°C)	0.4 to 0.6	Yellow
9/16	Urethane	8.50	-25° to 150°F (-32° to 65°C)	0.4 to 0.6	Yellow

*If using sleeve method, the minimum pulley is 7".

STEEL REINFORCED SPECIFICATIONS

Diameter (in.)	Elastomer	Minimum Pulley (in.)	Temperature Range	Coefficient of Friction	Color
1/2	Urethane	15.00	-25° to 150°F (-32° to 65°C)	0.4 to 0.6	Yellow
9/16	Urethane	15.00	-25° to 150°F (-32° to 65°C)	0.4 to 0.6	Yellow

CAN CABLE

POLYESTER REINFORCED CAN CABLE
STEEL REINFORCED CAN CABLE

- **Outperforms Nylon/Steel and other plastic cables**
- **Eliminates rusting and stretching**
- **Splices easily in minutes**
- **Increases productivity**
- **Reduces neckdown**
- **63 Shore D**

Shingle Can Cable is manufactured from polyester resin, thermally fused to a durable core to provide consistent reinforcement over the entire length of the cable.

REDUCES NECKDOWN

All the problems usually associated with neckdown, stretching, uneven cable surfaces, jam-ups, excessive breaks, and downtime for re-splicing are significantly reduced.

FAST, EASY SPLICING

With our can cable tool kits, anyone can make a splice in less than 15 minutes, and the cable's lighter weight makes installations safer too.

STRETCH-RESISTANT

Shingle Can Cable will not stretch under the stress of heavy loads. That means no "cable surge," less downtime, fewer "neckdowns," and better productivity.

RUST AND MOISTURE-RESISTANT

There's no nylon cover to strip off and no exposed steel to rust or cause rim burn. Thermoplastic will not absorb water or oil. Shingle Can Cable is particularly well-suited for dairies because it is impervious to the acidic atmosphere that can rot nylon and rust steel cables.

ABRASION-RESISTANT

Shingle's tough thermoplastic formula resists damage even under the abuse of raw-edged cans.

CUTS NOISE

Shingle Can Cable's smooth surface virtually eliminates the noise common with steel.

SAVES ENERGY

Since Shingle's thermoplastic cable is only one-third the weight of steel cable, there is less energy consumption and greater energy savings.

UP TO 1,000-FOOT LENGTHS

Unlike competitive plastic cables, Shingle reinforced cable is custom manufactured in any length up to 1,000 feet.

CAN TRACK SYSTEMS APPLICATIONS

- Canneries
- Olive sizing equipment
- Dairies
- Blow-molded bottle lines

POLYESTER REINFORCED CAN CABLE SPECIFICATIONS

Diameter (in.)	Elastomer	Minimum Pulley (in.)	Temperature Range	Coefficient of Friction	Color
3/8	Hi-Cap	11.50*	-30° to 225°F	0.3 to 0.4	Ivory

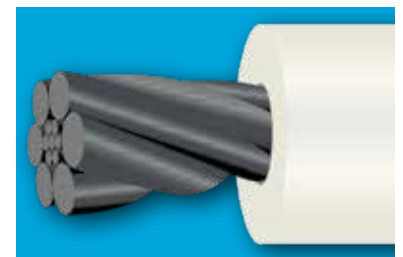
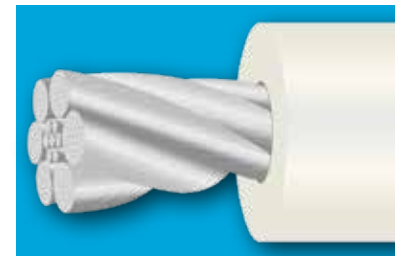
*If not using sleeve method, minimum pulley is 7.50".

Carrying Capacity (lbs.)	Tension
180	1%
368	2%
528	3%

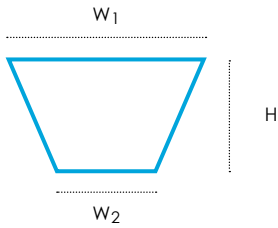
STEEL REINFORCED CAN CABLE SPECIFICATIONS

Diameter (in.)	Elastomer	Minimum Pulley (in.)	Temperature Range	Coefficient of Friction	Color
3/8	Hi-Cap	15.00	-30° to 225°F	0.3 to 0.4	Ivory

Carrying Capacity (lbs.) – 1000



- Clear Urethane – 70 shore A (meets FDA requirements)
- White PVC – 60 and 75 shore A (meets FDA requirements)
- Black PVC – 60 and 75 shore A
- Custom Colors Available



Specifications			
Size	W1	W2	H
K5	5 mm	3 mm	3 mm
K6	6 mm	4 mm	4 mm
K8	8 mm	5 mm	5 mm
3L (K10,0)	0.375 in.	0.250 in.	0.250 in.
A Mod	0.500 in.	0.350 in.	0.250 in.
A (K13)	0.500 in.	0.312 in.	0.312 in.
B (K17)	0.655 in.	0.406 in.	0.406 in.
C (K22)	0.875 in.	0.530 in.	0.530 in.

Minimum Pulley Diameters (in.)						
Size	PVC		Urethane		Soft Hi-Cap	
	Plain	Notched	Plain	Notched	Plain	Notched
K5	.75	-	1.0	-	-	-
K6	1.0	.75	1.5	1.25	-	-
K8	1.25	1.0	2.0	1.75	-	-
3L (K10,0)	2.0	1.5	2.5	2.0	3.5	3.0
A Mod.	2.5	2.0	3.0	2.5	-	-
A (K13)	3.0	2.5	3.5	3.0	4.5	3.5
B (K17)	4.0	3.0	4.5	4.0	5.5	4.5
C (K22)	6.0	5.0	7.0	6.5	-	-

- V-Guide comes plain or notched
- Very easy to affix to Monofilament, Flat Thermoplastic Belting, and all Standard Conveyor Belting
- Attach Profiles on the top side for flanges or on the bottom for guides



Make **Shingle** the single source for all your belting needs

Shingle is the only full-line specialty belting manufacturer in the United States, maintaining an in-depth inventory of power transmission and conveyor belting lines including:

POLYFLEX & POLYFLEX DRIVE

Flat, thermoplastic extruded conveyor belting with textured or smooth surfaces for food and nonfood applications. Nonporous with no fabric to fray or delaminate. V-Guides and cleats attach simply. Easily made endless. Available in various colors, hardness, and textures. USDA, FDA, 3A Dairy-approved.



MONOFILAMENT

Low-stretch, anti-static quality with a variety of cover profiles and materials (PVC, urethane, and rubber). 40 different types in stock for printing, food conveying, tobacco processing, and packaging applications. FDA/USDA approved.



PROFILE EXTRUSIONS

Extruded urethane or polyester profiles in round or V-belting. Ideal for tile manufacturing, brick plants, enclosed drives, canning lines, packaging, food handling, and roofing shingle manufacturing. Round belting is available in solid and hollow, reinforced, and non-reinforced. V-belting is available in reinforced and non-reinforced styles. Custom extrusions are also available in PVC, urethane, and polyester.



NYCOR NYLON CORE

Nylon core belting, which offers exceptionally high tensile strength and power efficiency. The solid, durable nylon core is available with single or double-sided covers in leather, rubber, textile, and synthetic leather to suit a variety of applications.



TREN TRULY ENDLESS

Truly endless rubber and thermoplastic belts for use on demanding applications. TrenPull for the wire & cable and extrusion industries. TrenCore for spiral tube winding. TrenSep for deboning and desinewing in food processing. And a variety of specialty belts for all industries.



SHINGLE BELTING

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website: www.shinglebelting.com

