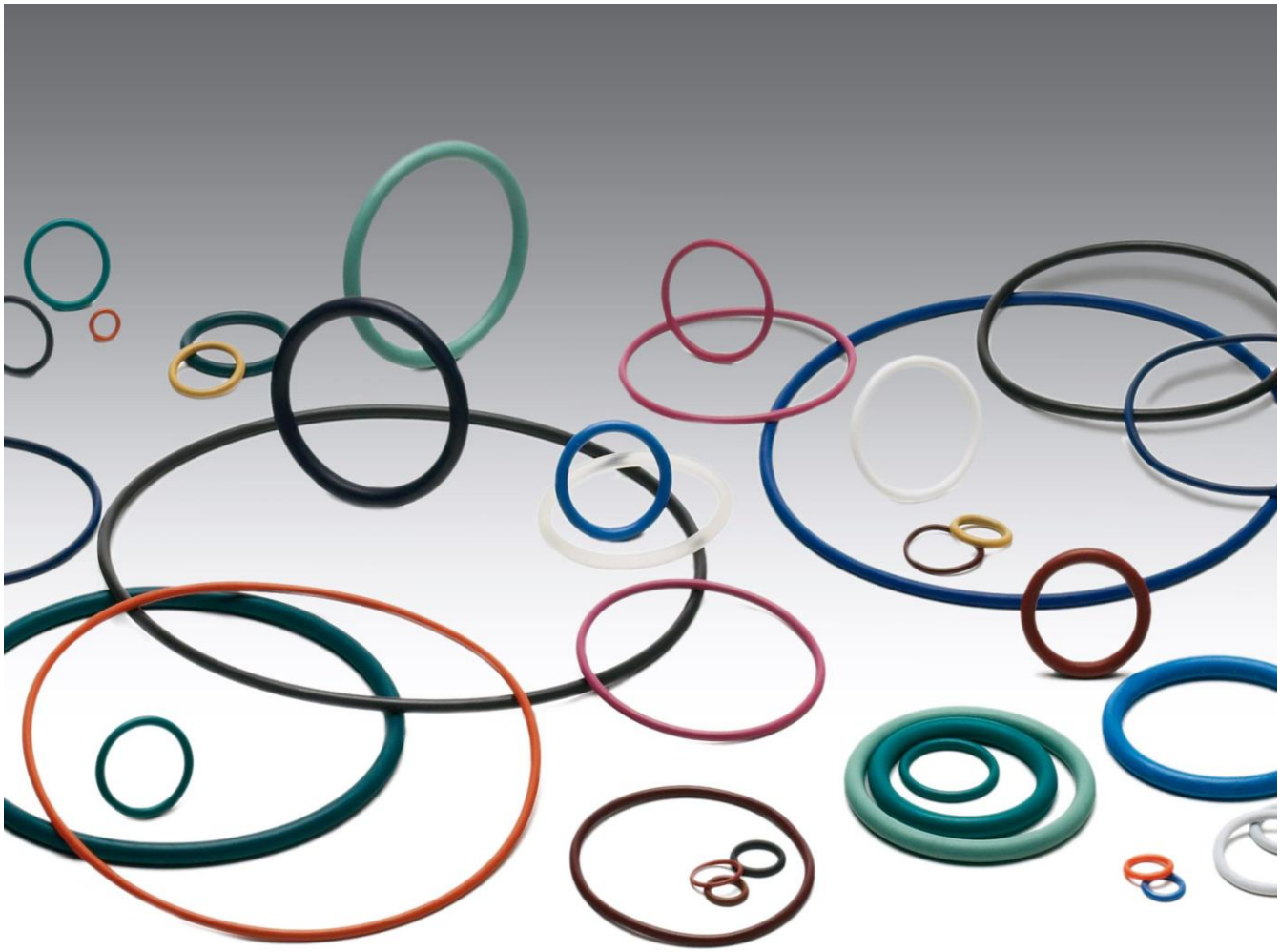
pflug.

Driving gear and conveyor technology
Profiled belts
Continuous round belts
turned and plaited

Endless Injection-Molded Round Belts



Endless Injection-Molded Round Belts

are ideal for small power transmissions. These belts are elastic power transmission elements and do not require costly tensioners. The manufacturing process prevents formation of any welding points, allowing the belts to run extremely smoothly and permitting minimum pulley diameters from 5.5 x belt diameter.

We recommend an initial tension of 6 – 12%. With more than 300 available moulds, most dimensions can be manufactured at short notice without extra charge.

Our types E80, V75, C70 and P82 models are manufactured from carefully selected materials that are highly resistant. Type E80 also features limited antistatic properties with a resistance value of approx. 10^6 ohm and is therefore ideally suited for the use in electronical devices and in chip manufacturing.

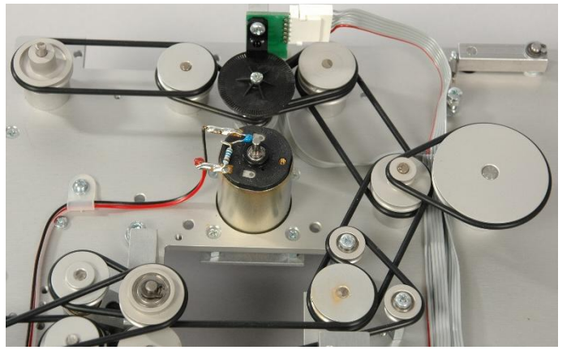
These types have been tried and tested over the years in sensitive applications or in line production.

Just like other elastic drive elements, they are fitted by pulling them only need to be pulled onto the device, which makes the installation incredibly easy and considerably reduces downtimes.

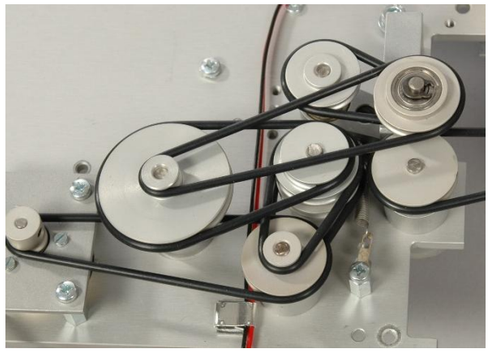
Available diameters: 1,8 – 7 mm
Available lengths: 40 mm – 1.610 mm
Temperature resistance: -20°C - +160°C
Coefficients of friction: 0,35µ - 0,9µ *
Maximum tension: > 100 N

All data may vary depending on the type and the processed material.

E80 inside a CD-drive



Endless injected round belts inside a card reader



Drive of the sorting device (back side)

* According to Pflug test specification SPPN 91.001 referring to V2A polished steel

Endless Injection-Molded Round Belts

Type: C 70

Type C 70		Ø 1,8 mm	Ø 2,6 mm	Ø 3,5 mm	Ø 5,3 mm	Ø 7,0 mm
Available sizes LW untensioned		40 – 424 mm	57 – 785 mm	90 – 1930 mm	100 – 1930 mm	380 – 2090 mm
Minimum pulley-diameter		10 mm	15 mm	20 mm	30 mm	40 mm
Pre-tension recommended		10 % 2,0 N	10 % 4,3 N	10 % 7,8 N	10 % 17,7 N	10 % 30,5 N
Static-tension for %-Elongation[1]	6%	1,2 N	2,6 N	4,7 N	10,6 N	18,3 N
	8 %	1,6 N	3,4 N	6,3 N	14,2 N	24,4 N
	10 %	2,0 N	4,3 N	7,8 N	17,7 N	30,5 N
	12 %	2,4 N	5,1 N	9,3 N	21,2 N	36,6 N
	15 %	3,0 N	6,4 N	11,7 N	26,5 N	45,7 N
Breaking strength		32 N	66 N	120 N	276 N	481 N
Breaking elongation		200 %	200 %	200 %	200 N	200 %
Coefficient of friction[2] V2A steel polished high density polyethylen		 0,90 µ 0,75 µ	 0,90 µ 0,75 µ	 0,90 µ 0,75 µ	 0,90 µ 0,75 µ	 0,90 µ 0,75 µ
Tolerances	Length	± 0,9 %	± 0,9 %	± 0,9 %	± 0,9 %	± 0,9 %
	Diameter	± 0,1 mm	± 0,1 mm	± 0,15 mm	± 0,15 mm	± 0,15 mm
Resistance to temperature (°C)	continuous	-15°C - +75°C	-15°C - +75°C	-15°C - +75°C	-15°C - +75°C	-15°C - +75°C
	short term	-20°C - +80°C	-20°C - +80°C	-20°C - +80°C	-20°C - +80°C	-20°C - +80°C
Antistatic		No	No	No	No	No
Application	Drive / Transport	Yes	Yes	Yes	Yes	Yes

Characteristics:

- Average oil-resistance
- Good weather and salt water resistance
- refrigerant stability (ammoniac, carbon dioxide, Freon)
- Good weather and ageing resistance

Non-resistant:

- aromatic hydrocarbon (benzol)
- chlorinated hydrocarbon (trichloroethylene)
- polar solvent (ketone, ether, acetone)

For special models in “red” colour enquire minimum order quantity and delivery time.

[1] Dynamically tested at 2000 r/min.
[2] According to Pflug test specification SPPN 91.001
The above information is believed to be correct and shall be used as a non-binding guideline only.
Pflug shall not be liable for any damage resulting from handling the above product or from contact with it.

Endless Injection-Molded Round Belts

Type: V 75

Type V 75		Ø 1,8 mm	Ø 2,6 mm	Ø 3,5 mm	Ø 5,3 mm	Ø 7,0 mm
Available sizes LW untensioned		40 – 424 mm	57 – 785 mm	90 – 1444 mm	100 – 1610 mm	380 – 2090 mm
Minimum pulley-diameter		12 mm	17 mm	23 mm	35 mm	46 mm
Pre-tension recommended		10 % 1,9 N	10 % 4,0 N	10 % 7,5 N	10 % 17,0 N	10 % 29,3 N
Static-tension for %-Elongation[1]	6 %	1,1 N	2,4 N	4,5 N	10,0 N	17,6 N
	8 %	1,5 N	3,2 N	6,0 N	13,0 N	23,5 N
	10 %	1,9 N	4,0 N	7,5 N	17,0 N	29,3 N
	12 %	2,3 N	4,8 N	9,0 N	21,0 N	35,2 N
	15 %	2,8 N	6,1 N	11,3 N	26,0 N	44,0 N
Breaking strength		33 N	69 N	125 N	287 N	500 N
Breaking elongation		160 %	160 %	160 %	160 %	160 %
Coefficient of friction[2] V2A steel polished high density polyethylen		0,75 µ 0,35 µ	0,75 µ 0,35 µ	0,75 µ 0,35 µ	0,75 µ 0,35 µ	0,75 µ 0,35 µ
Tolerances	Length	± 0,9 %	± 0,9 %	± 0,9 %	± 0,9 %	± 0,9 %
	Diameter	± 0,1 mm	± 0,1 mm	± 0,15 mm	± 0,15 mm	± 0,15 mm
Resistance to temperature (°C)	continuous	-10°C - +160°C	-10°C - +160°C	-10°C - +160°C	-10°C - +160°C	-10°C - +160°C
	short term	-15°C - + 180°C	-15°C - + 180°C	-15°C - + 180°C	-15°C - + 180°C	-15°C - + 180°C
Antistatic		No	No	No	No	No
Application	Drive / Transport	Yes	Yes	Yes	Yes	Yes

Characteristics:

- highly resistant to chemicals and oil
- water and liquid dilution resistant (at moderate temperatures)

Non-resistant:

- aromatic hydrocarbon (benzol)
- chlorinated hydrocarbon (trichloroethylene)
- polar solvent (ketone, ether, acetone)

For special models in “brown” colour enquire minimum order quantity and delivery time.

[1] Dynamically tested at 2000 r/min.
[2] According to Pflug test specification SPPN 91.001
The above information is believed to be correct and shall be used as a non-binding guideline only.
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Endless Injection-Molded Round Belts

Typ: E 80

Type E 80		Ø 1,8 mm	Ø 2,6 mm	Ø 3,5 mm	Ø 5,3 mm	Ø 7,0 mm
Available sizes LW untensioned		40 – 424 mm	57 – 785 mm	90 – 1444 mm	100 – 1610 mm	380 – 2090 mm
Minimum pulley-diameter		15 mm	20 mm	28 mm	42 mm	56 mm
Pre-tension recommended		10 % 4,3 N	10 % 9,3 N	10 % 16,0 N	10 % 39,4 N	10 % 66,3 N
Static-tension for %-Elongation[1]	6 %	2,6 N	5,5 N	10,1 N	23,6 N	39,8 N
	8 %	3,4 N	7,4 N	13,5 N	31,5 N	53,0 N
	10 %	4,3 N	9,3 N	16,9 N	39,4 N	66,3 N
	12 %	5,2 N	11,0 N	20,3 N	47,3 N	79,6 N
	15 %	6,5 N	13,8 N	25,2 N	57,0 N	99,5 N
Breaking strength		33 N	69 N	125 N	287 N	500 N
Breaking elongation		160 %	160 %	160 %	160 %	160 %
Coefficient of friction[2] V2A steel polished high density polyethylen		0,90 µ 0,65 µ	0,90 µ 0,65 µ	0,90 µ 0,65 µ	0,90 µ 0,65 µ	0,90 µ 0,65 µ
Tolerances	Length	± 0,9 %	± 0,9 %	± 0,9 %	± 0,9 %	± 0,9 %
	Diameter	± 0,1 mm	± 0,1 mm	± 0,15 mm	± 0,15 mm	± 0,15 mm
Resistance to temperature (°C)	continuous	-20°C - +110°C	-20°C - +110°C	-20°C - +110°C	-20°C - +110°C	-20°C - +110°C
	short term	-30°C - +130°C	-30°C - +130°C	-30°C - +130°C	-30°C - +130°C	-30°C - +130°C
Antistatic		No	No	No	No	No
Application	Drive / Transport	Yes	Yes	Yes	Yes	Yes

Characteristics:

- extremely resistant to ozone, ageing and weathering
- resistant to hydraulic fluid (phosphoric acid basis HDF-R)
- resistant to many polar solvents (alcohol, ketone, ester)

Non-resistant:

- mineral oil products (oil, fat, fuel)

For special models in “violet” colour enquire minimum order quantity and delivery time.

[1] Dynamically tested at 2000 r/min.
[2] According to Pflug test specification SPPN 91.001
The above information is believed to be correct and shall be used as a non-binding guideline only.
Pflug shall not be liable for any damage resulting from handling the above product or from contact with it.

Dimensions of Endless Injection-Molded Round Belts

Type: C 70, V 75, E 80
All available perimeters LW untensioned

Diameter	Ø 1,8 mm	Ø 2,6 mm	Ø 3,5 mm	Ø 5,3 mm	Ø 7,0 mm
Size in mm	40	57	90	100	380
	45	62	95	105	390
	50	67	100	110	400
	55	72	105	115	410
	60	77	110	120	420
	65	82	115	125	430
	70	87	120	135	440
	75	92	125	145	450
	80	97	130	155	460
	85	102	140	165	470
	90	107	150	175	480
	95	112	160	185	490
	100	117	170	195	500
	105	122	180	205	520
	110	127	190	215	540
	115	132	200	224	560
	125	137	210	234	580
	135	142	220	244	600
	145	147	230	254	620
	155	152	240	264	640
	165	157	250	274	660
	175	162	260	284	700
	185	167	270	294	740
	194	172	280	304	780
	205	177	290	314	820
	215	182	300	324	860
	225	187	310	334	900
	234	192	320	344	940
	244	197	330	354	978
	264	202	340	364	1017
	284	207	350	374	1057
	304	212	360	384	1097
	324	217	370	394	1137
	344	222	380	404	1177
	364	227	390	414	1217
	384	232	400	424	1257
	404	237	410	434	1295
	424	247	420	444	1335
	----	267	430	454	1375
	----	287	440	474	1455
	----	306	450	484	1495
	----	326	460	494	1535
	----	346	470	514	1575
	----	366	480	533	1615
	----	386	490	553	1695
	----	406	509	573	1775
	----	426	529	593	1855
	----	446	548	613	1930
	----	466	568	633	2010
	----	486	588	653	2090
	----	506	608	673	----
	----	526	628	693	----
	----	546	648	713	----
	----	566	668	733	----
	----	586	688	753	----
	----	606	708	773	----
	----	626	728	793	----
	----	646	748	813	----
	----	666	768	853	----
	----	686	788	893	----
	----	705	808	932	----
	----	725	848	972	----
	----	745	888	1052	----
	----	765	928	1132	----
	----	785	968	1212	----
	----	----	1047	1290	----
	----	----	1127	1370	----
	----	----	1207	1450	----
	----	----	1284	1530	----
	----	----	1368	1610	----
	----	----	1444	----	----

Further dimensions on request.

Endless Injection-Molded Round Belts

Type: P 82

Diameter		Ø 2,0 mm	Ø 3,0 mm	Ø 3,5 mm	Ø 5,0 mm	Ø 5,3 mm
Available sizes LW untensioned		57 – 220 mm	63 – 339 mm	70 – 269 mm	79 – 723 mm	144 – 425 mm
Minimum pulley-diameter		14 mm	21 mm	24 mm	35 mm	37 mm
Pre-tension recommended		8 % 7,0 N	8 % 15,7 N	8 % 21,4 N	8 % 43,7 N	8 % 49,1 N
Static-tension for %-Elongation[1]	6%	5,3 N	11,8 N	16,1 N	32,8 N	36,4 N
	8 %	7,0 N	15,7 N	21,4 N	43,7 N	49,1 N
	10 %	8,7 N	19,7 N	26,8 N	54,7 N	61,4 N
	12 %	10,5 N	23,6 N	32,1 N	65,6 N	72,9 N
	15 %	13,1 N	29,5 N	40,2 N	82,0 N	92,1 N
Breaking strength		126 N	283 N	385 N	758 N	882 N
Breaking elongation		400 %	400 %	400 %	400 %	400 %
Coefficient of friction[2]						
V2A steel polished		0,75 µ	0,75 µ	0,75 µ	0,75 µ	0,75 µ
high density polyethylen		0,50 µ	0,50 µ	0,50 µ	0,50 µ	0,50 µ
Tolerances	Length	± 0,9 %	± 0,9 %	± 0,9 %	± 0,9 %	± 0,9 %
	Diameter	± 0,1 mm	± 0,1 mm	± 0,15 mm	± 0,15 mm	± 0,15 mm
Resistance to temperature (°C)						
	continuous	-20°C - +80°C	-20°C - +80°C	-20°C - +80°C	-20°C - +80°C	-20°C - +80°C
	short term	-30°C - +90°C	-30°C - +90°	-30°C - +90°	-30°C - +90°	-30°C - +90°
Antistatic		No	No	No	No	No
Application	Drive / Transport	Yes	Yes	Yes	Yes	Yes

Characteristics:

- highly resistant to abrasion
- good ageing resistance
- ozone resistant
- weather resistant

Non-resistant:

- acids and solvents

[1] Dynamically tested at 2000 r/min.
[2] According to Pflug test specification SPPN 91.001
The above information is believed to be correct and shall be used as a non-binding guideline only.
Pflug shall not be liable for any damage resulting from handling the above product or from contact with it.

Dimensions of Endless Injection-Molded Round Belts

Type: P 82
Alll available perimeters LW untensioned

Diameter	Ø 1,5 mm	Ø 1,8 mm	Ø 2,0 mm	Ø 2,1 mm	Ø 2,4 mm	Ø 2,5 mm	Ø 2,6 mm	Ø 2,7 mm	Ø 2,95 mm	Ø 3,0 mm	Ø 3,5 mm	Ø 3,6 mm	Ø 4,0 mm	Ø 5,0 mm	Ø 5,3 mm	Ø 5,7 mm	Ø 6,0 mm	Ø 7,0 mm
Size in mm	74	75	57	68	59	68	62	62	103	63	70	78	101	79	144	220	195	389
		99	58		68	71	67	66		67	75	85	113	94	154	235	371	419
			60		71	80	82			70	77	439	129	204	164	298		499
			63		75	83	97			72	80		154	220	174	331		638
			66		103	93	117			79	90		185	236	184	361		658
			69				162			82	100		201	267	204	362		
			75				227			89	110		390	283	234	378		
			82							92	115			299	267	394		
			85							97	120			314	293	409		
			88							101	124			361	304	441		
			94							110	130			393	331	514		
			101							117	152			440	334	577		
			207							119	196			493	354			
			110							120	225			613	364			
			116							133	249			644	394			
			119							136	269			723	424			
			126							148					425			
			129							151								
			132							167								
			154							179								
			163							185								
			220							198								
										210								
										229								
										245								
										261								
										339								

Further dimensions on request.

Chemical resistance of Endless Injection-Molded Round Belts

Type / Medium	C 70 CR	V 75 FPM	E 80 EPDM	S 70 MVQ	P 82/90 AU/PU
Accumulator acid	-	+	+	-	-
Acetic acid, concentrated	-	-	+	+	-
Acetone	*	-	+	*	-
Acetylene	+	+	+	+	X
Alcohol	+	+	+	+	-
Ammonia, liquid	+	*	+	+	-
Ammonia, gas	+	-	+	X	-
Aniline	-	+	+	X	-
Benzine, pure	*	+	-	-	+
Benzine, regular fuel	-	+	-	-	*
Benzole	-	+	-	-	-
Brakefluid, 50°C (Glycolbasis)	*	-	+	+	-
Bromine water, satured	-	+	*	-	-
Butane	+	+	-	-	+
Calcium hydroxide, liquid	+	+	+	+	-
Carbon dioxide, dry	+	+	+	+	+
Carbon dioxide, wet	+	+	+	+	-
Carbon monoxide, dry	+	+	+	+	+
Carbon acid	+	+	+	+	-
Chlorine gas, dry	-	+	*	-	-
Chlorine gas, wet	-	+	*	-	-
Cloroform	-	+	-	-	-
Cyclohexane	-	+	-	-	-
Diesel fuel	-	+	-	-	*
Ethane	*	+	-	-	+
Ethanol	+	+	+	+	-
Ethanolamine	*	-	+	*	-
Ethyl alcohol	+	+	+	+	-
Ethylene	X	+	X	X	X
Ethylen glycol	+	+	+	+	-
Formic acid	+	-	+	+	-
Heating oil	*	+	-	*	*
Helium	+	+	+	+	+
Hydrazine	*	-	+	-	-
Hydrochloric acid, liquid 10%	+	+	+	-	-
Hydrocyanic acid	*	+	+	-	X
Hydrofluorit acid (HF), 65%	*	+	+	-	-
Hydrogen chloride gas	*	+	+	-	-
Hydrogen	+	+	+	-	+
Hydrogen peroxide 3%	+	+	+	+	-
Hydrosulphide	+	-	+	-	X
Methane	*	+	-	-	*
Methanol	*	-	+	+	-
Methyl ethyl ketone (Butanone)	-	-	+	-	-
Mineral oil	*	+	-	-	-
Nitric acid, liquid 10%	-	+	+	-	-
Nitric acid, concentrated 65%	-	+	-	-	-
Pentane	*	+	-	-	+
Perchlorothylene	-	+	-	-	-
Perchloric acid	*	+	*	-	-
Petroleum gas	*	+	-	-	*
Petroleum jelly	*	+	-	+	+
Phenol	-	+	*	-	-
Photograph-developer	+	+	+	X	-
Photograph-fixing bath	+	+	+	X	-
Potassium hydroxide, liquid	*	-	+	-	-
Propane gas	*	+	-	-	*
Silicone oil	+	+	+	-	+
Sodium hydroxide, liquid	*	-	+	-	-
Toluol	-	+	-	-	-
Transmission oil, EP (Hypoid) 110°C	-	+	-	*	-
Water gas	*	+	+	+	-
Xylol	-	+	-	-	-

+ resistant
- non-resistant
*** limited resistance**
× not specified

The above information is a non-binding guideline only.

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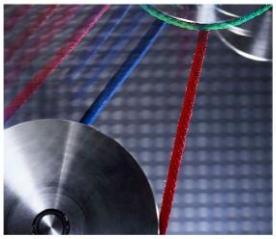
Company profile



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Testing Service

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Welded timing belts
in short lengths

pflug.

Round belts for
heat-setting machines

pflug.

Endless injected round belts

pflug.

Endless turned round belts

pflug.

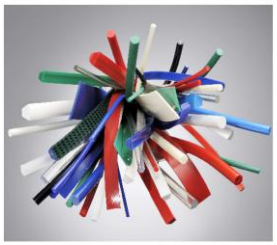
Endless plaited round belts

pflug.

Hooked belts

pflug.

PU round- and profile belts



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PU profile belts and
special profiles

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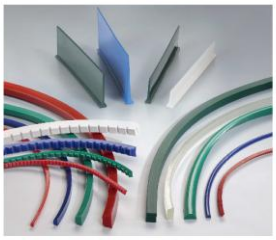
PU tracking guides, cleats
and guides



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Food line

Types for the food industry compliant to EU/FDA

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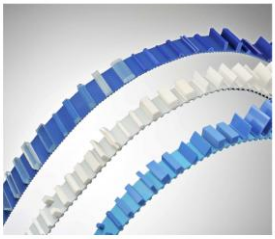
PU cleats and block profiles



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PU Poly-V belts

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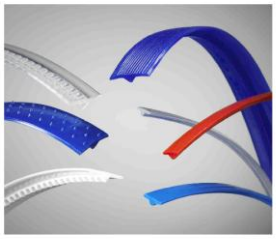
PU-V-guide belts
compliant to EU/FDA



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PU coatings

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