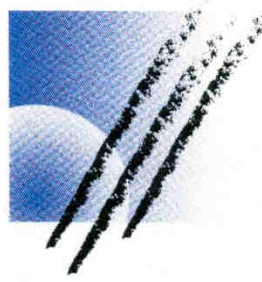
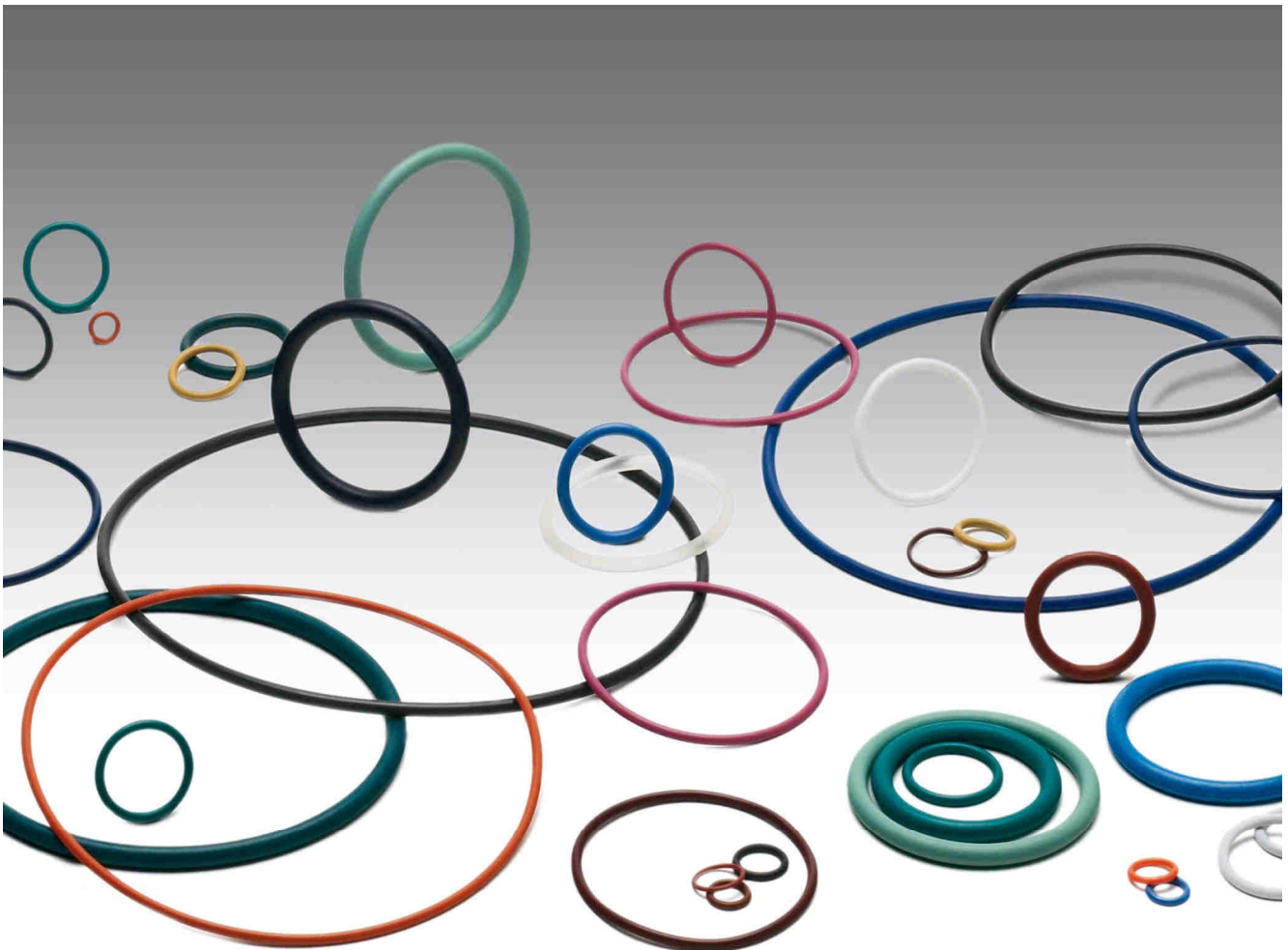


**pflug.**



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

# Endless injected round belts



## Endless injected 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 of 5.5 x belt diameter.

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

Our E80, V75, C70 and P82 models are manufactured from carefully selected materials that are highly resistant. Additionally, our E80 model also features limited antistatic properties with a resistance value of approx.  $10^6$  ohm; therefore they are ideally suited for the use in electrical devices and in chip manufacturing.

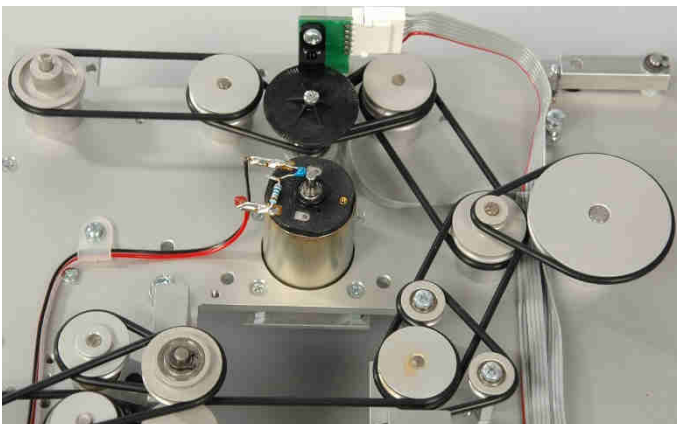
These models have proven themselves again and again over the years in sensitive applications or in line production. Like all elastic drive elements, they only need to be pulled onto the device to fit them, not only making installation incredibly easy but also considerably reducing downtimes.

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

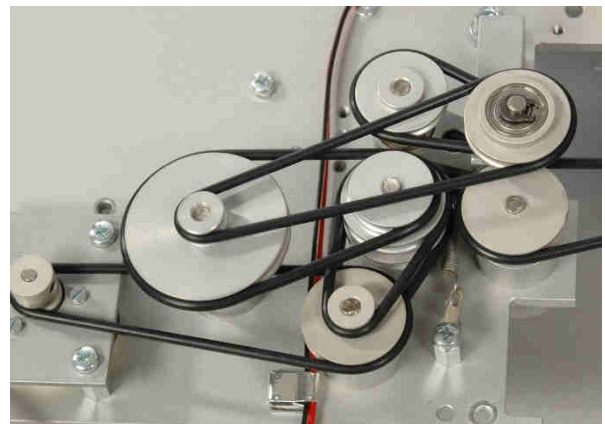


E80 inside a CD-drive

Data may vary depending on the model and material processed.



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 injected round belts

## Typ: 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 – 1444 mm	100 – 1610 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 <sup>1</sup>		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 %	200 %
Coefficient of friction <sup>2</sup>						
V2A steel polished		0,90 µ	0,90 µ	0,90 µ	0,90 µ	0,90 µ
high density polyethylen		0,75 µ	0,75 µ	0,75 µ	0,75 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.**

<sup>1</sup> Dynamically tested at 2000 r/min.

<sup>2</sup> 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 injected 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 %	10 %	10 %	10 %	10 %
		1,9 N	4,0 N	7,5 N	17,0 N	29,3 N
Static-tension for %-Elongation <sup>1</sup>	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 <sup>2</sup>	V2A steel polished	0,75 µ	0,75 µ	0,75 µ	0,75 µ	0,75 µ
	high density polyethylen	0,35 µ	0,35 µ	0,35 µ	0,35 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.**

<sup>1</sup> Dynamically tested at 2000 r/min.

<sup>2</sup> According to Pflüg test specification SPPN 91.001

The above information is believed to be correct and shall be used as a non-binding guideline only.

Pflüg shall not be liable for any damage resulting from handling the above product or from contact with it.

# Endless injected 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 <sup>1</sup>	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 <sup>2</sup>						
V2A steel polished		0,90 µ	0,90 µ	0,90 µ	0,90 µ	0,90 µ
high density polyethylen		0,65 µ	0,65 µ	0,65 µ	0,65 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.**

<sup>1</sup> Dynamically tested at 2000 r/min.

<sup>2</sup> According to Pflug test specification SPPN 91.001

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# Endless injected round belts

## Type: P 82

Type P 82		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 <sup>1</sup>	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 <sup>2</sup>						
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°C	-30°C - +90°C	-30°C - +90°C	-30°C - +90°C
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

<sup>1</sup> Dynamically tested at 2000 r/min.

<sup>2</sup> 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 injected 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.

## Dimensions of endless injected round belts

### Type: P 82

All 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 99	57 58 60 63 66	68	59 68 71 75 83 103	68 71 80 83 97 93	62 67 62 66 62 67 71 75 82 87 93 103 117	62 66	103	63 67 70 72 79	70 75 77 80 90	78 85 101 129 154 185	101 113 129 154 201 236	79 94 129 144 204 236	144 154 164 174 220 236	144 220 235 298 331 361	220 195 371	389 419 499 638 658	
			69 75 82 85 88				162 227			82 89 92 97 101	100 110 115 120 124		201 283 314 361	267 283 293 304	204 234 293 304	362 378 394 409 441			
			94 101 107 110 116							110 117 119 120 133	130 152 196 225 249			393 440 493 613 644	331 334 354 364 394	514 577			
			119 126 129 132 154							136 148 151 167 179	269		723	424 425					
			163 220							185 198 210 229 245									
										261 339									

Further dimensions on request.



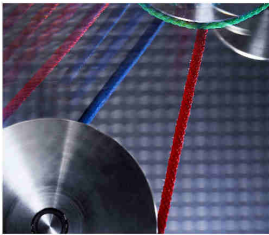
## Chemical resistance of endless injected round belts

Type	C 70 CR	V 75 FPM	E 80 EPDM	S 70 MVQ	P 82/90 AU/PU
<b>Medium</b>					
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, saturated	-	+	*	-	-
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
Ethylene glycol	+	+	+	+	-
Formic acid	+	-	+	+	-
Heating oil	*	+	-	*	*
Helium	+	+	+	+	+
Hydrazine	*	-	+	-	-
Hydrochloric acid, liquid 10%	+	+	+	-	-
Hydrocyanic acid	*	+	+	-	X
Hydrofluoric 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	*	+	-	-	+
Perchloroethylene	-	+	-	-	-
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	-	+	-	-	-

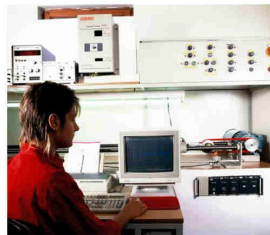
- + resistant
- non-resistant
- \* limited resistance
- x not specified

The above information is a non-binding guideline only

**Company profile**



**Testing Service**



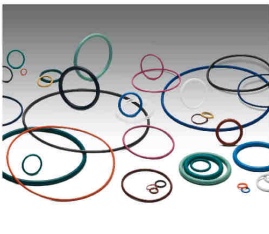
**Welded timing belts  
in short lengths**



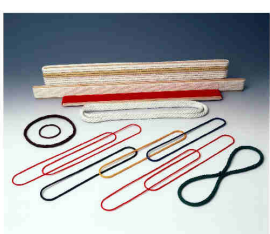
**Round belts for  
heat-setting machines**



**Endless injected round belts**



**Endless turned round belts**



**Endless plaited round belts**



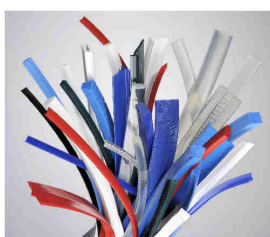
**Hooked belts**



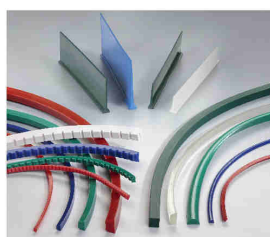
**PU round- and profile belts**



**PU profile belts and  
special profiles**

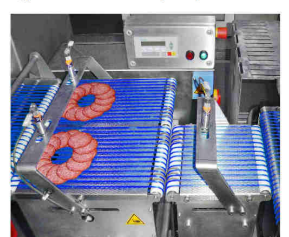


**PU tracking guides, cleats  
and guides**

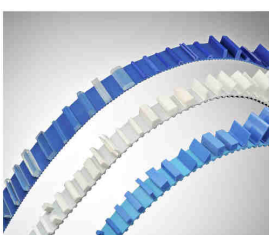


**Food line**

Types for the food industry compliant to EU/FDA



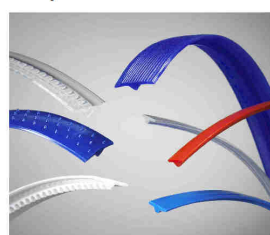
**PU cleats and block profiles**



**PU Poly-V belts**



**PU-V-guide belts  
compliant to EU/FDA**



**PU coatings**

