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WEAVEinMotion

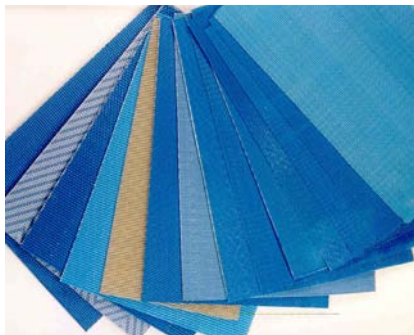
transport processing solution

Synthetic Conveyor Belts from GKD - the Leader in Technical Weaving

GKD Thermoplastic Process Belts are utilized in nearly all industries throughout a broad range of applications such as Belt Presses, Belt Filters, Dryers, Vacuum Belt Filters, Pan Filters, Textile Treating Machines, Nonwoven Production and Drum Filters. For these applications GKD is a leader in the development and production of standard and specialized ready-made Filter Belts and Linear Screens. Technical data on the most commonly used styles can be found on the following pages and further information on specialized types is also available upon request.

GKD Thermoplastic Process Belts are typically manufactured from polyester but can also be made with special materials such as polyamide, PPS and PEEK. Our Thermoplastic Process Belts are made on strong weaving looms, typically associated with metal belts, giving them incomparable stability. Subsequent thermal treatment provides consistency in aperture and offers improved performance and belt life in applications with elevated temperatures. The possibilities of different mesh constructions, weave patterns, wire diameters, material, mesh openings and air permeability are virtually endless.

GKD supplies Process Belts that are individually suited to specific applications, depending on the type of process, product, air permeability and chemical and thermal conditions. Our broad product range of Process Belts covers almost every application, but if your application requires special attention, we have the experience and knowledge to develop a process-specific belt.



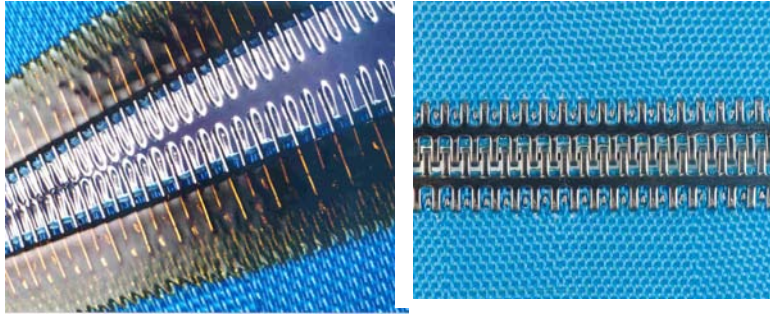
Seams

Standard Hook Seams

Hook seams made of stainless steel are specifically tailored based on the application and process and are stabilized with special coatings. If necessary we can provide hook seams without any additional coatings.

The benefits of GKD hook seams are:

- High Stability
- Quick and simple installation
- Long Lifetime

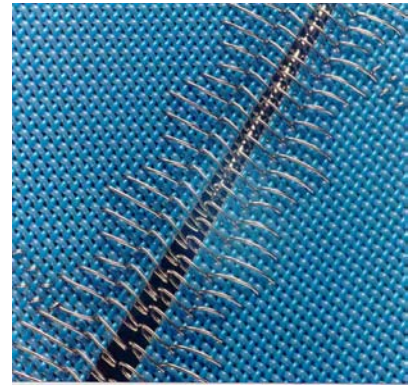
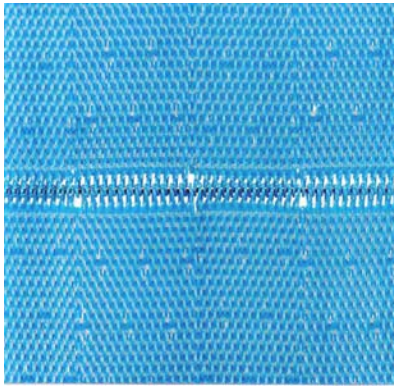
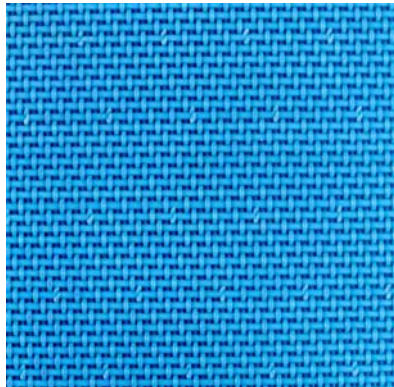


Pin wires are supplied as monofilaments and can also be supplied in flexible construction.

Special Seams

Our years of experience and our highly skilled technicians have made us a leader in seaming technologies. Specialized seams for sensitive applications and products can be supplied in the following:

- Non-marking endless woven seams
- Nearly non-marking woven pin seams
- Flexible hand-sewn pin seams made either of plastic or metal
- Sewn zipper seams

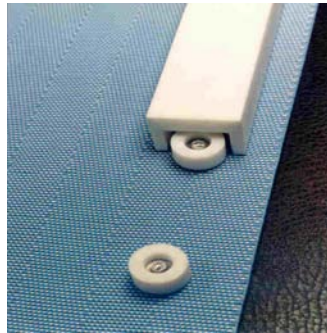


Edges

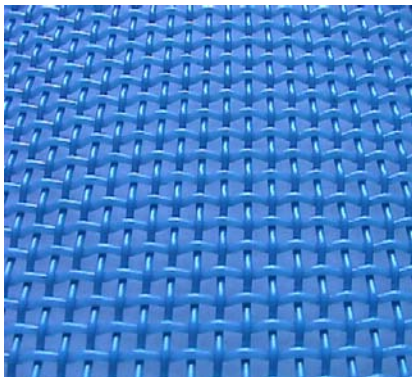
Typically GKD Thermoplastic Process Belts are supplied with heat-cut and sealed edges. This process secures the edges and keeps them from unraveling, ensuring extra belt durability.

In addition, edges can be coated with synthetic resins, offering additional protection for problem processes.

We also can affix round plastic elements allowing the belt to be guided in U-profiles.



Weave Patterns



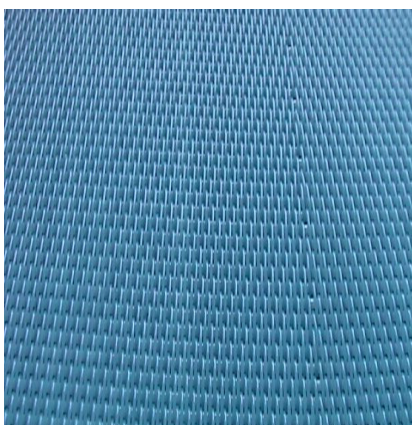
Plain



Twill 2/1



Twill 3/2



Twill 3/2 Microdur

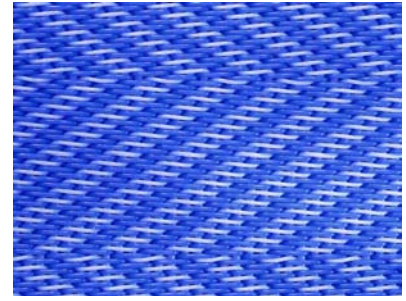


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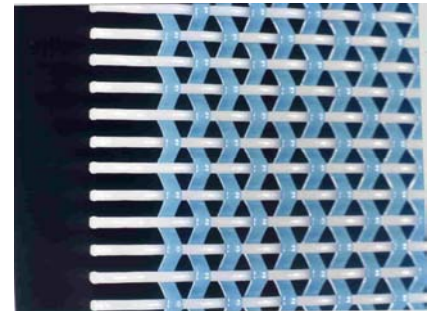
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Filter Belts



Type	Material Warp	Material weft	Pattern	Thickness mm	Tensile Strength N/cm	Opening (micron)	Air Permeability l/m2/s 200 Pa	Cfm 127 Pa	Standard Seam Seam
1003	PES	PES	2/1	1.8	2490	390	2580	400	M/L
1013	PES	PES	2/1	2.4	2205	530	2694	399	XL
2045	PES	PES	2/1	1.9	1740	540	3870	601	L
3051	PES	PES	plain	1.4	1630	400	3100	482	M
4072	PES	PES	2/1	1.2	1080	340	3860	599	S
5060	PES	PES	3/2	2.5	3110	540	3020	469	XL
5066	PA	PES	3/2	2.5	2850	550	2920	452	XL
5080	PES/PA	PES	3/2	2.6	2740	480	2680	410	XL
5090	PES	PES	3/2	2.6	3000	340	2280	353	L
5150	PES	PES	2/3	1.6	1930	310	2790	433	M
5156	PES	PES	3/2	1.9	1560	380	2150	334	L
5250	PES	PES	4/1	1.3	1270	140	1290	190	M
6240	PES	PES	4/1	1.0	820	140	1550	241	S
7280	PES	PES	5/1	1.0	1300	190	1220	200	S
3356	PES	PES	5/1	1.1	1300	150	2215	300	S
8060	PES	PES	6/2	1.9	2180	350	2650	411	L
8065	PES	PES	6/2	2.0	1980	470	2820	437	L

Linear Screens

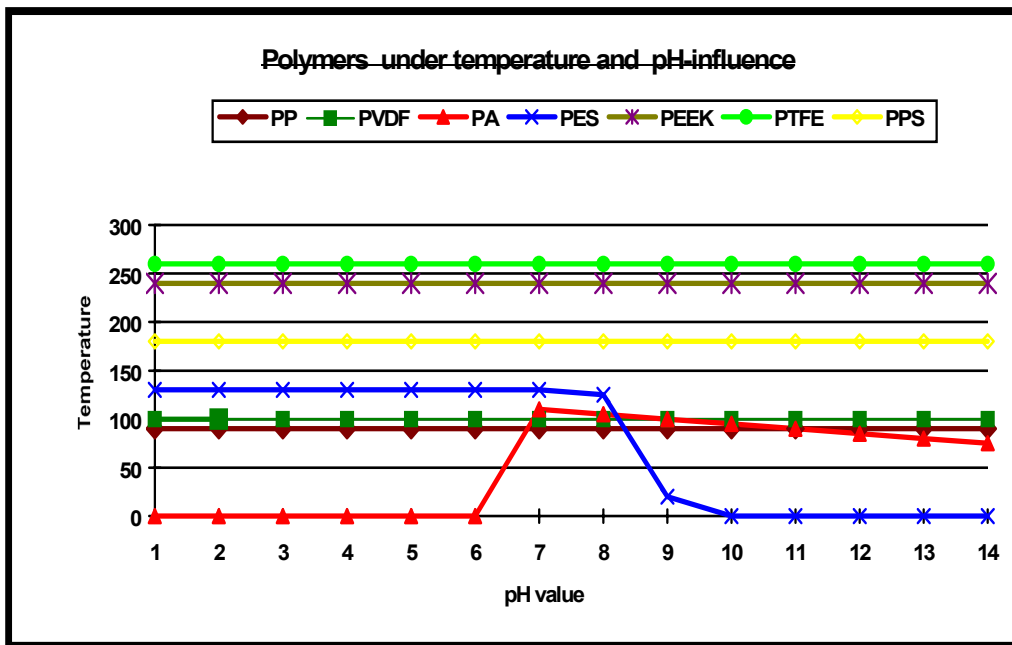
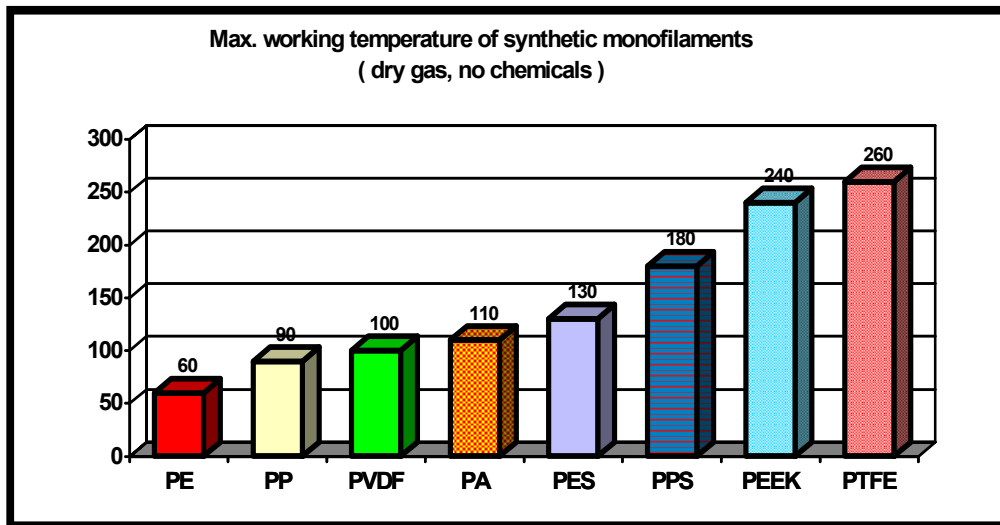


Type	Material	Weave Pattern	Mesh Opening mm	Glass Bead μ	Air Permeability l/m ² xsec at 0.002 bar	Cfm	Standard Clipper Seam
300/20	PES	Plain	0.30x0.33	150	2596	398	S
600/25	PES	Plain	0.95x0.60	600	4760	704	M
800/26	PES	Plain	0.80x0.80	800	5542	859	M
1300/35	PES	Plain	1.50x1.30	1300	8083	1253	M
2000/42	PES	Plain	2.00x 2.00	2000	9166	1421	M

Fields of Application for GKD Thermoplastic Process Belts

- Sewage/Sludge
- Food Industry
- Chemical Industry
- Textile Industry
- Fruit Juice Extraction
- Paper Sludge
- Pectin Production
- Phosphoric Acid Industry
- Ground Sanitation
- Nonwovens Industry
- Coal and Ore Mining
- and many more

Synthetic Materials Data



Duofil - Our Successful Woven Process Belt Combining Synthetics and Metal

Duofil is GKD's advancement of Metal Woven Process Belts in that this construction utilizes both metal and synthetics. Weft wires are strong stainless steel wires or cables and the warp wires are made from Polyester (up to 130° C), PPS (up to 180° C) or PEEK (up to 240° C) depending on the working temperature and process conditions.

Duofil has the advantage of better fatigue resistance when wrapping around small diameter rollers even at high speeds. Duofil belts are woven with bronze wires on the outer edges to ground the belts as they come in contact with metal in the conveyor such as end rolls, supports or guides. DuoFil offers the release qualities of synthetic belts without the typically associated static problems.

Our many years of experience have made us a leader in seaming technologies and special edge-securing techniques and we can offer our Duofil belts in continuous lengths of 100 meters or more. Depending on the thickness of the weft wires, Duofil belts have selvaged edges or are secured with synthetic coatings.

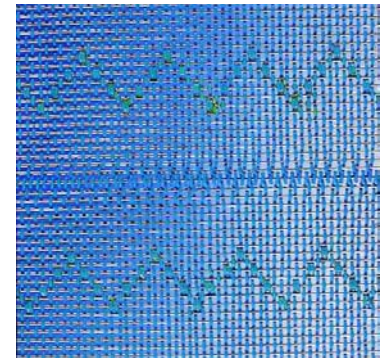


Illustration: DUOFIL with pyramid seam

Standard types with technical data

Mesh Count (Warp) Per Inch	Mesh Count (Weft) Per Inch	Wire Diameters Inches	Material	Weave Pattern	Mesh Opening mm	Open Area %	Air Permeability l/m2/s 200 Pa	CFM 127 Pa	Article Number
9.7	9.7	.028/.031	PEEK / AISI 316	plain		52.5 %	13900		40860200
10.2	14	.026/.026	PES / AISI 316	plain	1.85x1.00	44%	12800		40860250
10.2	15.2	.028/.026	PEEK / AISI 316	plain		44%			40860265
10.2	14.7	.028/.022	PEEK / AISI 316	Plain		46.8 %	13400		40860260
10.2	14.7	.035x.017/ .021	PEEK / AISI 316	plain	1.2x2.25	48%			40860256
12.7	12.7	.026/.026	PES / AISI 316	plain	1.00x1.00	46%	12700		40860285
15	2.0	.026/.026	PES / AISI 316	plain	1.01x1.35	41%			40860400
15	14.7	.026/.026	PES / AISI 316	plain	1.02x1.02	36%	11400	1770	40860510
20.3	17.8	.020/.014	PES / AISI 316	plain		45%			40860805
20.3	17.8	.028/.020	PES / AISI 316	plain	0.55x0.93	23%	8000	1250	40860815
20.3	20.3	.028/.016	PES / AISI 316	plain	0.55x0.85	30%	7400	1120	40860750
30.5	30.5	.016/.012	PES / AISI 316	plain	500μ			1165	40862000
47	31.8	.014/.012	PES / AISI 316	plain	250μ		5500	860	40862670
56.4	33	.012/.011	PES / AISI 316	plain	0.15x0.49	21%	5250	773	40862720
60.2	33	.012/.012	PES / AISI 316	4/1	350μ		5150	800	16803000
65	65	.0067	PES / AISI 316	plain	220 μ	32%			10801000
70	25.4	.014/.020	PES / AISI 316-PA	2/1	300μ		3041	472	40866510
72.6	56.4	.0079/.005	PES / AISI 316L	plain	0.15x0.20				40866550