



ADVANCED TEXTILE SOLUTIONS

2024

Introduction to Filament Yarns

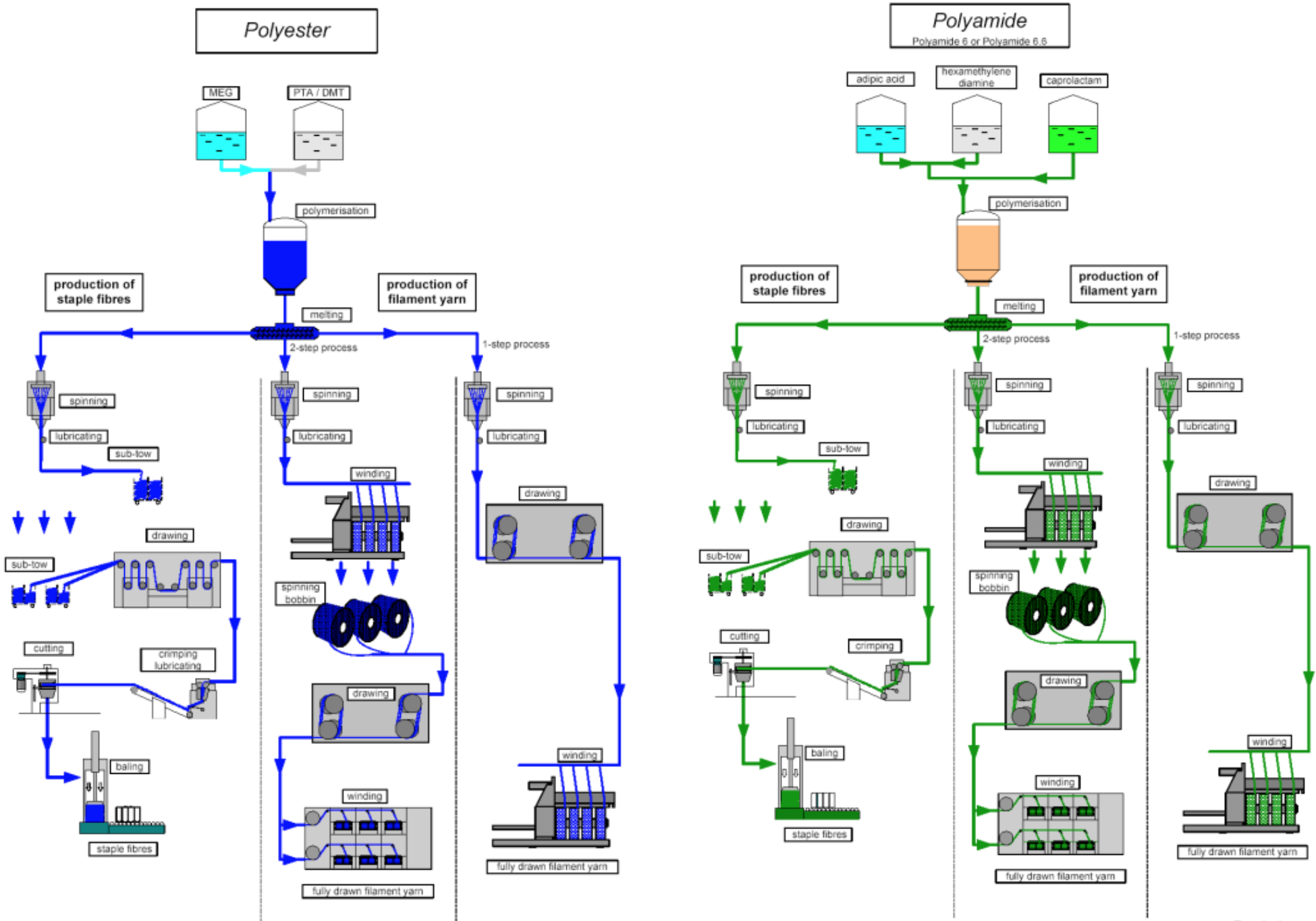
Filament fibers are made from a variety of synthetic materials, including Polyamide, polyester, and spandex. These fibers are extruded through small holes to create long continuous filaments that can be woven or knit together to create fabric. The resulting fabric is typically lightweight, breathable, and moisture-wicking, making it ideal for athletic and outdoor wear.

Polyamide is one of the most used materials for filament clothing. It is a strong and durable fiber that can withstand wear and tear over time. Polyamide filament fabrics are often used in athletic wear, such as running shorts, because they are lightweight and moisture-wicking, keeping the wearer cool and comfortable during exercise.

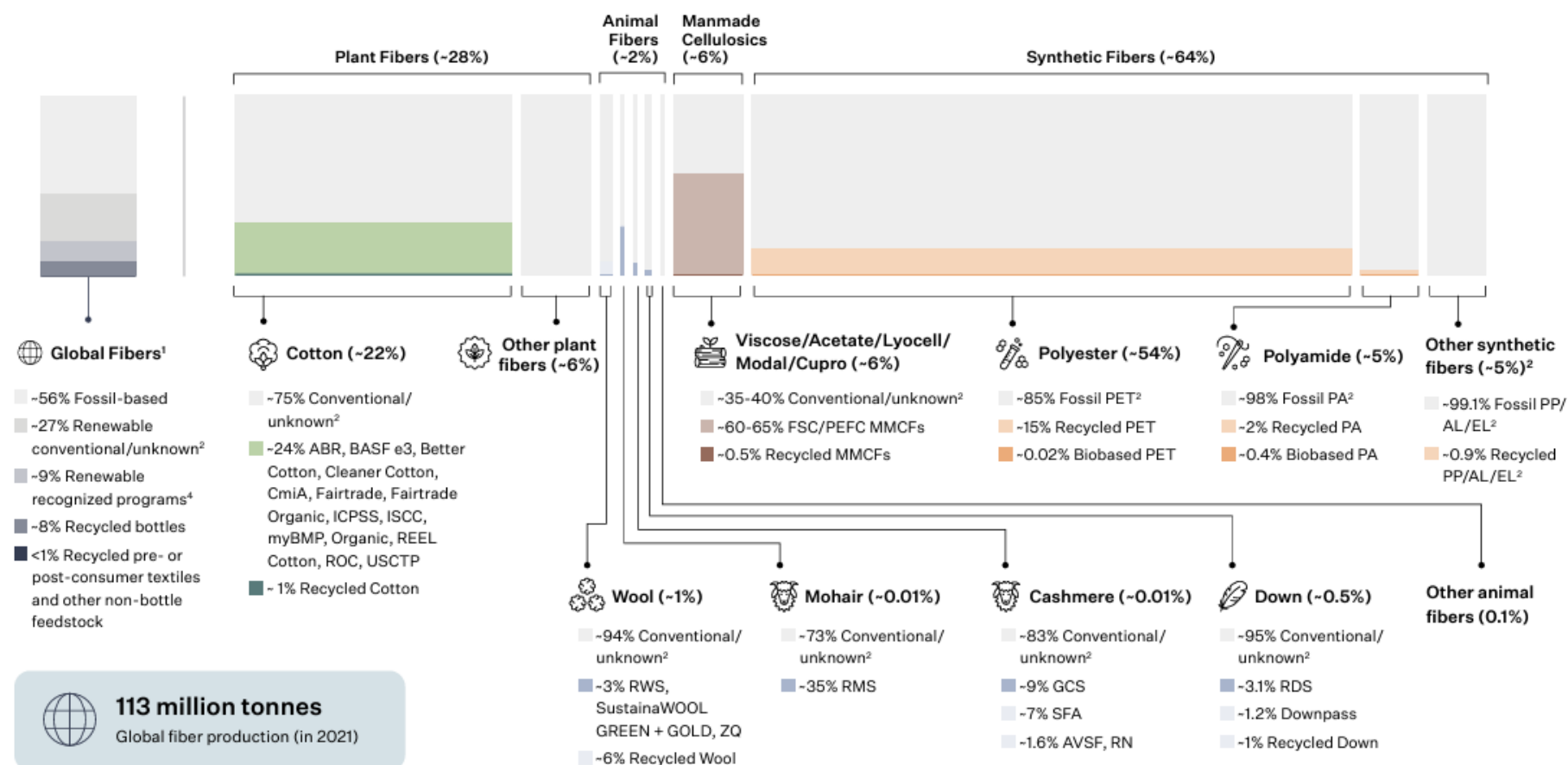
Polyester is another common material used in filament clothing. Like polyamide, it is a strong and durable fiber that can withstand wear and tear over time. Polyester filament fabrics are often used in outdoor wear, such as hiking pants and jackets, because they are water-resistant and quick drying, making them ideal for use in wet environments.

Moreover, filament yarns are engineered with features like rapid moisture absorbency and drying, antibacterial properties, odor control, UV protection, Recycled, Bio degradable and an ultra-lightweight nature. These attributes render them perfectly suited for outdoor and sportswear, offering both comfort and functional excellence.





The global fiber market 2021: Program overview



















1 This graph aims to inform the industry about the global total production volumes and the shares covered by different programs. Our definition of "Preferred" is currently being updated, and the assessment of the programs along a continuum of different levels of preferred is work-in-progress. For more information see also our methodology chapter.

2 Conventional and unknown. This includes volumes of preferred or potentially preferred but unassessed programs for which data are not accessible or available.













3 Other synthetic fibers include polypropylene (PP), acrylics (AC), and elastane (EL).






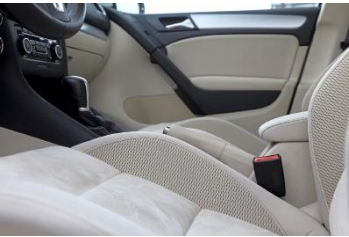






4 Renewable recognized programs include here all the recognized programs listed in this chart apart from the recycled fibers.













No	Image	Products	Available			Images
1	COOLMAX® EcoMade technology 	COOLMAX® EcoMade technology provides the same reliable cooling performance you expect from the COOLMAX® brand, but it's made with 100% recycled resources to help the environment. Eco-conscious consumers will also appreciate that this polyester fiber can be made with either 100% textile waste or recycled PET bottles. Either option offers permanent moisture-wicking performance	Textured	Dtex	83f 48 167f96	
2	COOLMAX® EcoMade ALL SEASON... 	COOLMAX® EcoMade ALL SEASON technology is engineered to meet this consumer's needs. Made from 100% post-consumer recycled resources, this polyester fiber is designed to provide year-round comfort to many types of apparel. This versatile fiber helps the wearer stay cool when it's warm and warm when it's cool by using an innovative combination of fibers.	Textured		83f100 167f200	
3	COOLMAX® EcoMade Natural Touch™ fabric... 	Containing special fibers made from 100% recycled PET bottles, jeans made with patented COOLMAX® EcoMade Natural Touch™ fabric technology will delight consumers with its combination of efficient moisture management, comfortable stretch, and its natural denim look and touch.	Air Jet Textured	Dtex	180f200 360F400	
4	COOLMAX® freshFX® EcoMade fabric technology 	COOLMAX® freshFX® EcoMade fabric technology provides durable freshness in addition to the cooling performance the brand is famous for worldwide. This fiber contains a silver additive that keep garments fresh and consumers confident all-day long. Made with recycled resources to reduce waste, this technology also helps consumers feel good about their purchase.	Textured	Dtex	83f48 167f96	

5	COOLMAX® EcoMade PRO technology 	For advanced cooling performance and reduced environmental impact, choose sustainable COOLMAX® EcoMade PRO technology. This specialty polyester fiber is made with 100% recycled resources and combines moisture-wicking, quick dry times, and exceptional breathability to deliver next level comfort to all high-impact end uses	Textured	Dtex	83f88 167f176	
6	THERMOLITE® EcoMade ALL SEASON... 	THERMOLITE® EcoMade ALL SEASON technology is engineered to meet this consumer's needs. Made from 100% post-consumer recycled resources, this polyester fiber is designed to provide year-round comfort to many types of apparel. This versatile fiber helps the wearer stay warm when it's cool and cool when it's warm by using an innovative combination of fibers	Textured	Dtex	83f100 167f200	
7	THERMOLITE® EcoMade Technology 	THERMOLITE® EcoMade technology provides lightweight warmth for all activities. Constructed with functional, insulating hollow fibers that last, this technology can be used in apparel and non-apparel products. In addition, eco-conscious consumers will appreciate that these fibers can be made with either 100% recycled PET bottles or 100% textile waste.	Textured	Dtex	83f100 167f200	
8		The ECO Dye Technology is a paradigm shift in textile dyeing. It is precision color, no fade, no bleeding and requires 85% less water, 90% less harmful chemicals and result is 12% less CO2 emissions compared to traditional piece dyeing	Textured	Dtex	Polyester & Polyamide 22F20, 33F34, 44F34, 55F36, 83F36, 83f72 110F36, 110f96 167F48, 167F96, 167f144....	



















9	 	<p>Matrix is an orange type section conjugate fiber made of cationic polyester and nylon at a 80:20 ratio. After polyester and nylon are split in the dyeing and processing process, it becomes a microfiber of mono 0.13 dpf is obtained by physically or chemically treating the bicomponent filament, (segmented pie/16 segments) composed of two different polymers – split into a structured arrangement.</p>	Textured	Dtex	55/36*16 83/36*16, 110F72*16 167F72*16 330F166*16	
10	 	<p>Ultra Soft™ Textured Yarns The degree of fineness (D/F) for a single fiber for the polyester microfiber yarn is below 0.5. Because of the low fiber degree of fineness increases the surface area, fabrics made with this yarn are extremely delicate and soft to the touch, as well as effective at absorbing moisture and fast drying.</p>	Textured	Dtex	38f72, 38f96, 55f72, 55f96, 83f96, 83f144, 110f144,110f192, 110f288,110f333 167f192, 167f288, 330f576	
11	 	<p>Air Covered Yarn is a regular intermingled yarn, the covering filament yarn and Spandex are drawn meanwhile from a special jet nozzle where the yarns are air-jetted at regular intervals by high compressed air.</p>	Textured PET PA6 PA66	Dtex	Yarn: from Dtex 22 up to 330 Elastan: 17, 22,33,44,78 D/R : customized	
12	 	<p>DISCAT® is mélange yarns are the ideal way to create multicolored fabrics with a one-step dyeing process. These mélange yarns are the perfect solution for making soft and comfortable on-trend sports and fashionwear.</p>	Textured	Dtex	110F144 167F144 330f96 660f192	









13	 	Air Texturing Taslan High-quality air jet textured yarns are produced from all types of continuous filament yarns (PES, PA, PP, Glass, Carbon, etc.) as well as from their various forms (FDY/FOY, POY)	AJT	Dtex	From dtex 90 up to 5.000	
14	 	Autotex Polyester yarns are a popular choice for automotive seat covers, door panels and head linings due to their durability, color fastness, and resistance to shrinking and stretching. They are also easy to clean and maintain, making them an ideal choice for high-traffic areas such as car interiors.	FDY DTY, AJT	Dtex	Dtex from 44 up to 3200 "Customized"	
15	 	VELOX® PBT Stretch Yarns Polybutylene terephthalate (PBT) Elastic, soft and resistant and takes dye well, even when blended with other types of fibers. <ul style="list-style-type: none"> • Chlorine resistant • Quick drying • Longer-lasting fabrics 	Textured	Dtex	22F9 55F24 78F24 156F48 330F96 660F192	
16	 	100% Cationic Polyester Yarns It is polymerized with compositions that include sulphonyl acid radical. Because of the existence of sulphonyl acid radical, the combination ability of the yarn with dye molecule is enhanced, improving dye ability of yarn.	Textured	Dtex	55F72 83F72 110F144 167f144 330f288	

17	 	Heather Effect DTY is kind of specialty yarn made by using special textured technology and several different kinds of raw material. Combining with Cationic dyeable yarn with other polyester (Virgin or Recycle) yarn, the fabric will show two tone or three tone special mélange effect.	Textured (Short, Medium, Long Mélange can be designed)	Dtex	110F108 110F144 167F144 330F288	
18	 	KARADENIZ Effect DTY is kind of specialty yarn made by using special textured technology and several different kinds of raw material. Combining with Cationic dyeable yarn with other polyester, virgin and recycled	Textured "Long Stripes" Mélange	Dtex	110F108 110F144 167F144 330F288	
19	 	MARMARA Effect DTY is kind of specialty yarn made by using special textured technology and several different kinds of raw material. Combining with Cationic dyeable yarn with other polyester, virgin and Recycled	Textured "Short stripes" Mélange	Dtex	110F108 110F144 167F144 330F288	
20	 	EGE Effect DTY is kind of specialty yarn made by using special textured technology and several different kinds of raw material. Combining with Cationic dyeable yarn with other polyester, virgin and recycled	Textured "Medium Stripes" Mélange	Dtex	110F108 110F144 167F144 330F288	











20		Sofil is conjugated polyester with unique properties Comfortable stretch and recovery, which gives freedom of movement. In the PET-PTT bi-component structure, the PTT shows different characteristics when heated, causing the yarn to form a crimp	FDY	Dtex	33F18 44F18 55F36 83f36 167F72 333F144	
21		37.5® Technology helps keep your body at the ideal core temperature of 37.5° Celsius and helps keep the microclimate next to your skin at the ideal relative humidity of 37.5%. When you're hot, patented active particles embedded in the material remove sweat in the vapor stage before liquid sweat forms, cooling you down. When you're cold, those same active particles trap your energy to help warm you up.	Textured	Dtex	83f48 83f72 167f96 167f144 330F192 330F288	
22		RENU® polyester chemical recycling system technology, using waste clothing, scraps, and other waste polyester materials as initial raw materials, through thorough chemical	Textured Flat	Dtex	33/24F-36F-72F 55/36F-72F-144F 83/36F-72F-144F 110/36F-72F-96F-144F-288F 167/36F-48-72-96F-144F 288F 330/72F-96F-144F-288F	
23		100% RECYCLED PET YARNS Billions of plastic bottles go into landfills every year. REPREEVE is the leading, most trusted, branded performance fiber made from recycled materials (including plastic bottles). Buy products made with REPREEVE to make a difference.	Textured (DTY) Flat Yarn (FDY)	Dtex	55F36 55F72 83F36 83F72 110F36 110F96 167F48 167F144	










		Textile-To-Textile Chemical Recycled Polyester Yarns. Chemical recycling of textiles, as the name suggests, uses chemical processes to break down textile waste to a molecular level. The different outputs of chemical recycling offer multiple points of re-entry into the fashion supply chain and allow for a more versatile product range than mechanical recycling.	Textured FDY	Dtex	FD SD BR CD	22F24 33F36 44F72 55F72 and 144 83F72 110F144 167f144 330F288	
24		POLYAMIDE 6.6 Raw white, Spun dyed - High Tenacity Twisted - Mélange in circular, rectilinear, ladder-resist knitting processes, seamless, hosiery, warping, traditional weaving, etc ..	FDY DTY ACY AJT	Dtex	BR SD FD	From 0.5 TO 10 DPF From 5 TO 300 DTEX	
25		RECYCLED POLYAMIDE 6.6 for a more ethical consumption INFINIMO ECO is obtained from a process of mechanical recycling waste materials by Factories and not, returned to the production cycle in polymer chips.	FDY DTY ACY AJT	Dtex	BR SD FD	From 0.5 TO 10 DPF From 5 TO 300 DTEX	
27		NeoLive® is a RECYCLED POLYAMIDE 6, 100% made of pre-consumer waste. <ul style="list-style-type: none"> reduces dependence on non-renewable resources. It maintains a clean land field. It decreases environmental impact. 	FDY DTY AJT	Dtex	BR, TBR, SD, FD	From 22 up to 230	


28		POLYPROPYLENE More breathable than polyester, more insulating than wool and lighter than any other fiber. Bright - semi dull-dyed in extrusion. CUSTOMIZED colors Spun dyed -Twisted - Mélange	AJT DTY ACY SC DC	Dtex	DD	FROM 1 TO 5 DPF FROM 55 TO 2200 DTEX	
29		MERYL® RECYCLED & ECO COLORS MERYL® HYDROGEN MERYL® NEXTEN MERYL® SUBLIME MERYL® NATEO MERYL® SENSE MERYL® SUPERDRY MERYL® SKINLIFE MERYL® HYALURONAN	DTY FDY ATY	Dtex	FD SD	FDY: 22F7,22F20, 33F34, 44F30,60F30, 78f68, 78F96, 88F96, 110f96,156f136 DTY: 33F34,44F30, 60F30, 78f68 ATY: 90f96,140F60,170 F136,380F272, 380F384	
30		SPLX® Fabric is all about the touch - and the touch is ultra soft. With the advantages of a high-tech fiber and the natural beauty of cotton, SPLX® meets the growing demand for quality intimate apparel, legwear, swimwear, activewear/fitness, and outdoor/trekking.	ATY from PA 6 and 66	Dtex	SD FD	90F68 170f136 220F136 340F272	
31		TERRYL® is a bio-based polyamide fiber. for the textile industry. It is made from renewable plant raw materials. Soft, skin-friendly, silky, and smooth Excellent Moisture Absorption and Wicking, Good Resilience	FDY DTY AJT	Dtex	SD FD BR	Dtex 22F10,44f36,78f24, 78f48,78f68 x 1-2	



32		<p>Flat yarns: 22 to 300 dtex Textured yarns: 17 to 6,000 dtex capillary cross sections: Round, trilobal, triangular, DTY = draw textured yarn ATY = air textured yarn</p>	FDY DTY ATY	Dtex	SD FD TBR CD DDB DDC	33f24, 55f36,55f72, 83f36,83f72,83f144, 110f36,110f96,110f144 167f36,167f48,167f96, 167f288, 330f72,330f96,330f288	
33		<p>ALWAYS FRESH SKIN Expression of the cool feeling / UV blocking / see-through prevention / sweat-absorbent quick-drying functions generated by the special shaped cross-section and raw materials.</p> <ul style="list-style-type: none"> ▪ Cooling effect, ▪ UV Blockage, ▪ Quick drying, ▪ Lightweight 	FDY DTY	Dtex	FD	<p>FDY: 18F24,28F34,38F34, 55F48,66F48</p> <p>DTY: 33F10,44F34, 78F68</p>	
34		<p>Relaxx® with Engineered Stretch Yarn Relaxx® stretches as needed and bounces right back, because it's engineered that way—the stretch technology is part of the fiber.</p> <ul style="list-style-type: none"> ▪ No snarl yarns. ▪ Soft Hand feel ▪ 4-way stretch 	Patented method of covering	Dtex	SD FD TBR CD DDB DDC	44-22/7 1550 22-33/20/1 1000 22-44/34 650 22-44/13 1000 22-78/68/1 600 Customized	
35		<p>High tenacity air jet textured Polyamide 6,6 filament yarns Offer Enhanced Tear and Abrasion Resistance. used in a wide array of products including luggage, backpacks, trousers, military wear, and performance apparel.</p>	AJT	Dtex	SBR	380,560, 770,1100	



36		C type Hollow Yarn Excellent thermal keeping attributed to thermal insulation of air gap inside filament, Light weight for its thickness (hollow rate as high as 60%) manufacturing processes	DTY	Dtex	83/36, 167/36, 167/72, 330/72, 330/144	
37		<ul style="list-style-type: none"> ▪ Cotton Like ▪ Linen Like ▪ Wool like ▪ Silk like ▪ Viscose like ▪ Acetate like ▪ KDK yarn ▪ Sable Yarn 	AJT DTY Twisted Fancy		SD FD TBR DD CD FR RECYCLED	
38		COFIL® is an Environmentally friendly and Flame-Retardant PVC Polyester Coated Yarn. Sunscreen is PVC coated polyester woven fabric with special functions such as fire retardant, UV blockage, reducing the heat gain and glare, strong color fastness.			Dtex 850- 1100-2200 3000	
39		SAKURA™ textured split yarn has a soft touch and excellent drape and a superiors and effect compared to the more Conventional monofilament TEXTURED Yarns.	Textured	SD High Shrink REPREVE DDB	Dtex 22f1	

40		Permanently Flame Retardant without the use of additional finishes High abrasion resistance Innovative products through continuous development of Tepar Filaments No afterglow, very low emission of fumes in the event of fire Meets the important international fire protection standards. P. content of 6500 ppm	AJT DTY	Dtex	SD	83F36, 83F72, 110F36, 167F48 167F96, 167F144, 330F96, 330F288	
41		VALENS® is the ultrahigh molecular weight polyethylene (UHMWPE) fiber manufactured by a unique spinning technology. VALENS® shows high tensile strength, high modulus, high durability, and other useful property enough to called 'Super Fiber'.	FDY	Dtex	SD	33,55, 110, 220,330, 440,660, 1100,1670,1800,3300	
42		High Tenacity Industrial yarn Super Low, Low, regular Shrinkage, Anti-Wicking Adhesive Activated, Dope Dyed, Recycled / Bio, Flame Retardant, Mooring PET, PA and PA 66	FDY	Dtex	BR	PET From Dtex 33 up to 4400 PA 66 from Dtex 110 up to 2800	
43		Aramid fiber was the first organic fiber used as reinforcement in advanced composites with high enough tensile modulus and strength. They have much better mechanical properties than steel and glass fibers on an equal weight basis. Aramid fibers are inherently heat- and flame-resistant, which maintain these properties at high temperatures. Meta- aramid, Para- aramid!	FDY ATY twisted	Dtex		930,1100,1670 and 3300	
			Spun Yarn	Ne		10, 20,30	
				Nm		17,34,51	

Note:



Tepar Tekstil Working Policy

Welcome to Tepar Tekstil! Our commitment is to serve our customers efficiently and effectively. To achieve this, we have established clear guidelines for inquiries and communication:

First-Time Inquiries: If you're contacting Tepar Tekstil for the first time, please provide comprehensive information about your company, market position, and business activities. We value transparency and do not entertain anonymous or 'stealth mode' inquiries.

Contact Through Mobile Phones: We prioritize inquiries through mobile phones only if we have an existing relationship with you.

Information Requirement: For new and returning customers alike, detailed information is crucial. Providing complete details about your requirements helps us serve you promptly and accurately. For your convenience, we offer a downloadable checklist to streamline this process.

No Response to Anonymous or Incomplete Inquiries: We do not respond to anonymous inquiries from mass mail providers (like Gmail, Yahoo, Hotmail, etc.) without full contact details. Similarly, incomplete inquiries about products or applications that do not align with our interests will not be entertained.

Specific Questions and Quantities: Please be specific with your questions. General queries without context or specific requirements will not be addressed. Information about quantities for tests, trials, first deliveries, and annual consumption is essential for us to provide accurate offers.

Sample Policy: We do not stock samples due to the vast range of products we handle. Samples are ordered case-by-case and must be paid for, including shipping costs.

Product Range and Confidentiality: Tepar Tekstil specializes in yarn and fiber specialties of the highest quality. We do not engage with inquiries for substandard or stock lot products. Customer activities and requests are treated with utmost confidentiality.

Guidance and Coaching: For extensive guidance or long-term coaching on product developments, we offer specialized support subject to specific agreements covering working time and costs.

General Inquiries: For standard products at low prices, or inquiries from individuals and one-person companies, we recommend exploring other sources.

Contact Details: We expect complete contact details with your first communication, especially if using a mass mailing service. Inquiries without full details will be automatically deleted.

Thank you for choosing Tepar Tekstil. We look forward to a successful collaboration!



Tepar's Sampling policy

Free samples have NO value!

At Tepar, we have refined our sampling policy based on extensive experience. Our approach is grounded in the belief that free samples often don't lead to productive outcomes. Therefore, we focus on fostering success by supporting trials that demonstrate commitment and potential.

Our policy is tailored to engage with customers who are serious about their projects and show a willingness to invest in their success. This is why we require payment for samples. This approach ensures that our customers value the samples highly and have thoroughly assessed the risks and opportunities of their initiatives. Our past experiences have shown that unpaid samples frequently result in a lack of feedback and outcomes, which is not conducive to mutual success.

Our long-term partnership strategy includes the following key elements:

- Prioritizing support for customers who demonstrate seriousness and a track record of success in their sample requests.
- Producing requested samples.
- Implementing a policy where customers are charged for samples and their shipment. This includes a minimal charge for the samples (which can be reimbursed once the project scales up industrially) and the actual shipping costs.
- Offering a cost refund scheme once the customer's project enters the commercial phase and Tepar begins regular supply.

We appreciate your understanding of our policy. It's designed to ensure a strong foundation for a successful and enduring partnership with Tepar, your reliable long-term ally. Thank you for choosing us to be a part of your journey towards success.



Tepar

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